AD-A094 318

AIR FORCE OCCUPATIONAL MEASUREMENT CENTER RANDOLPH AFB TX F/6 5/9
FABRICATION AND PARACHUTE CAREER LADDER, AFS 427X3.(U)

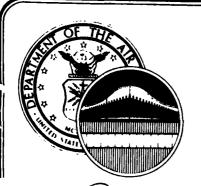
UNCLASSIFIED

I or |
A9.34.HP

I or |
A9.



6 FILE COPY





UNITED STATES AIR FORCE

GUPATIONAL



FABRICATION AND PARACHUTE CAREER LADDER

AFS 427X3.

AFPT 90-427-403

DECEMBER 1980

柱CTE JAN 30 1981

OCCUPATIONAL ANALYSIS PROGRAM USAF OCCUPATIONAL MEASUREMENT CENTER AIR TRAINING COMMAND RANDOLPH AFB, TEXAS 78148

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

TABLE OF CONTENTS

| | PAGE NUMBER |
|--|----------------|
| PREFACE | iii |
| SUMMARY OF RESULTS | • iv |
| INTRODUCTION | - 1 |
| CAREER LADDER STRUCTURE | - 6 |
| ANALYSIS OF DAFSC GROUPS | - 19 |
| COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS | 2 7 |
| ANALYSIS OF EXPERIENCE (TAFMS) GROUPS | - 28 |
| ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS | - 36 |
| ANALYSIS OF TASK DIFFICULTY | - 38 |
| ANALYSIS OF TRAINING EMPHASIS | - 44 |
| COMPARISON TO PREVIOUS SURVEYS | - 48 |
| DISCUSSION | - 49 |
| APPENDIX A | - 51 |

| Acces | sion For |
|---------------|----------------------------|
| DTIC Unann | GRA&I TAB Ounced fication |
| | ibution/ lability Codes |
| Dist | Avail and/or Special |



PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Fabrication and Parachute (AFS 427X3) career ladder. The report was prepared at the request of the OPR for training, TTGXM, Chanute AFB, Illinois to examine the impact of merging Parachute Rigger (AFS 582X1) with Fabric and Rubber Products (AFS 582X0) in April 1977 to become AFS 427X3. Authority for conducting occupational surveys is contained in AFR 35-2. Computer outputs from which this report was produced are available for use by operating and training officials.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Manpower and Personnel Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Computer Programming Branch, Technical Services Division, AFHRL.

The Air Force occupational analysis program has been in existence since 1956 when initial research was undertaken by AFHRL (Air Force Systems Command) to develop a methodology for gathering and analyzing occupational information. In 1967, an operational occupational analysis program was established within the Air Training Command and surveys were produced annually for 12 enlisted specialties. In 1972, the program was expanded to conduct occupational surveys covering 51 career fields annually. In late 1976, the program was again expanded to include the survey of officer utilization fields, to permit special management applications projects, and to support interservice or joint service occupational analysis.

The survey instrument used in the present project was developed by Captain Gary K. Patterson, Inventory Development Specialist. Mr. Reginald G. Nolte and Ms. M. Gayle Kadura analyzed the survey data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB Texas 78148.

Copies of this report are available to air staff sections, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB Texas 78148.

This report has been reviewed and is approved.

BILLY C. McMASTER, Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

SUMMARY OF RESULTS

- 1. Survey Coverage: Inventory booklets were administered to Fabrication and Parachute (AFSC 427X3) personnel worldwide. Survey results are based on the responses from 872 AFS 427X3 incumbents (74 percent of assigned). A majority of the incumbents surveyed were assigned to MAC, TAC, and SAC.
- 2. <u>Career Ladder Structure</u>: Personnel in this career ladder were found to be performing basically four types of jobs--those which involve servicing and repairing parachutes; those which involve inspecting, maintaining, and repairing liferafts; those which involve inspecting, maintaining, and repairing life preservers; and those which involve a combination of these functions. Overall, the picture presented by the job structure analysis was one of high homogeneity across job groups. Thus, merging the Fabric and Parachute ladders in 1977 appears to be supported by the survey data.
- 3. <u>Career Ladder Progression</u>: As with most trade-related occupations, there was a high degree of homogeneity across the various skill level groups. While more senior 7-skill level personnel did spend a higher proportion of their job time on supervision, they still spent a relatively high percentage (45 percent) on technical tasks. This trend tends to indicate a rather substantial number of working supervisors at this level.
- 4. TAFMS Groups: The typical trend of increasing percentage of time spent on supervisory tasks with increasing months TAFMS was noted. Technical tasks continue to make up a majority of the job time for those incumbents with less than 192 months in the career field; therefore, many of the senior incumbents appear to be working supervisors. Reenlistment intentions for first enlistment personnel were somewhat higher than for first enlistment incumbents in other mission equipment maintenance career ladders.
- 5. Analysis of CONUS Versus Overseas Groups: Essentially, very little differences were noted between the two groups. Overseas respondents spend more time performing parachute inspections and repairing protective clothing, and are more satisfied with their jobs. Both groups perform essentially the same number of tasks.
- 6. Discussion: This career ladder consists primary of technically oriented personnel. Sixty-nine percent of the survey respondents were 3- or 5-skill level personnel who spend a high percentage of their time in three technical areas. This is indicative of a highly homogeneous career ladder. The survey results support the decision to merge AFS 582X0, Fabric and Rubber Products, and AFS 582X1, Parachute Rigger into a single ladder, Fabrication and Parachute (AFS 427X3). There was some indication that specialization along former work lines has occurred in several of the groups; however, 70 percent of the survey respondents have integrated very well into the new ladder. Individuals also appear in some specialized test squadrons but their jobs did not differ enough to cause them to group separately. First enlistment personnel have a low job interest; however, their perception of the use of their training and rather high reenlistment intentions are encouraging.

OCCUPATIONAL SURVEY REPORT FABRICATION AND PARACHUTE CAREER LADDER AFSC 427X3

INTRODUCTION

This is a report of an occupational survey of the Fabrication and Parachute career ladder (AFS 427X3) completed by the Occupational Analysis Branch, USAF Occupational Measurement Center, in October 1980.

In April 1977, the Parachute Rigger career ladder (AFSC 582X1) was merged with the Fabric and Rubber Products career ladder (AFSC 582X0). The merger of these two ladders resulted in a new AFSC, 427X3, titled Fabrication and Parachute. A previous survey for the Fabric and Rubber Products career ladder, (AFS 582X0) was completed in December 1974. No previous survey has been conducted on the Parachute Rigger career ladder (AFS 582X1).

The basic job of 427X3 personnel, as described by AFR 39-1, is to inspect, repair, and fabricate items of fabric, dope aircraft control surfaces, and perform shop repair of rubberized items; assemble, inspect, clean, repair, and pack deceleration, cargo and aerial delivery, and personnel parachutes, and flotation equipment. In order to properly perform these services, all personnel in this career ladder must attend the basic Fabrication and Parachute course taught at Chanute AFB, Illinois. The course is approximately 12 weeks in length.

Objectives

The current project was requested by TTGXM, Chanute AFB, Illinois, in order to measure the impact of merging the two ladders. In the past, the parachute shop and the fabric shop were often located close to each other, and often shared work. They are now under a single shop organization with sections defining much the same separation of work as before, particularly in the larger shops. The current survey will reflect the results of the merger. Topics discussed in this report include: (1) survey methodology; (2) job structure within the ladder; (3) an analysis of skill level groups; and (4) a comparison of the results of the current survey with previous surveys.

SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-427-403. As a starting point, tasks from the previous Fabric and Rubber Products inventory and an earlier draft inventory for the Parachute Rigger ladder were reviewed for inclusion in the new AFS 427X3 task list. A new tentative task list was then formulated which included useable tasks from these prior inventories as well as new tasks obtained from

The second secon

a thorough research of current specialty publications and directives. This tentative task list was then validated by 28 subject matter specialists working in operational units at six bases as well as by personnel at the Technical Training School located at Chanute AFB. From this review process, a final inventory was developed consisting of 730 tasks grouped under 22 duty headings.

Survey Administration

During the period January to June 1980, job inventories were administered to all DAFSC 427X3 personnel at operational units both in CONUS and overseas by local consolidated base personnel offices. Personnel were selected from Uniform Airman Record (UAR) data tapes generated by the Air Force Manpower and Personnel Center (AFMPC) and maintained by the Air Force Human Resources Laboratory (AFHRL).

The 427X3 job inventory consisted of two sections: (1) a background section which included questions about such items as job satisfaction, equipment used, or the reenlistment intentions of the survey respondents, and (2) a task section listing all tasks which could be performed by career ladders personnel. Incumbents first checked the tasks they performed and then rated each task on a nine-point scale showing time spent on that task as compared to all other tasks checked. The rating scale ranged from one (very small amount of time spent) to nine (very large amount of time spent), with a rating of five representing an average amount of time spent performing a task.

To determine the relative amount of time an incumbent spends on each task, all of the incumbents ratings are assumed to account for 100 percent of his or her time spent on the job. The ratings are then summed and each task rating is then divided by the total number of task reponses and the quotient is multiplied by 100. This procedure provides a basis for comparing tasks not only in terms of percent members performing, but also in terms of average percent time spent.

Survey Sample

Personnel were selected to participate in this survey so as to insure an accurate representation across all MAJCOM and paygrade groups. Seventy-four percent (872) of the 1,173 incumbents assigned to the 427X3 career ladder were sampled. Table 1 reflects the distribution of both the career ladder members and the survey sample across commands. Table 2 lists paygrade group distribution, while Table 3 lists the sample distribution of Total Active Federal Military Service (TAFMS) groups. As shown in these tables, the survey sample had a balanced distribution across MAJCOMs, paygrade groups, and TAFMS groups, and provided adequate representation of the career ladder population as a whole.

Nine-skill level and CEM Code personnel were not included in the survey because they derive from six relatively unrelated career ladders and thus would not reflect the duties and tasks performed in the Fabrication and Parachute career ladder.

TABLE 1

COMMAND REPRESENTATION OF SURVEY SAMPLE

| COMMAND | | PERCENT OF ASSIGNED | PERCENT OF SAMPLE |
|---------|-------|------------------------|-------------------|
| MAC | | 24 | 27 |
| TAC | | 24 | 25 |
| SAC | | 20 | 21 |
| USAFE | | 10 | 9 |
| PACAF | | 7 | 6 |
| ATC | | 6 | 6 |
| AFSC | | 4 | 3 |
| AFLC | | 1 | 2 · |
| AAC | | 1 | 1 |
| OTHER | | 3 | 0 |
| | TOTAL | 100 | 100 |

*AS OF JUNE 1979

TABLE 2
PAYGRADE REPRESENTATION OF SURVEY SAMPLE

| PAYGRADE | | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
|----------|-------|----------------------|-------------------|
| AIRMAN | | 33 | 29 |
| E-4 | | 23 | 24 |
| E-5 | | 25 | 26 |
| E-6 | | 13 | 15 |
| E-7 | | _6 | 6 |
| | TOTAL | 100 | 100 |

*AS OF JUNE 1979

TABLE 3
TAFMS DISTRIBUTION OF SURVEY SAMPLE

| | | Mo | ONTHS IN 1 | THE SERVICE | <u> </u> | |
|-----------------------------|------|-------|------------|-------------|----------|------|
| | 1-48 | 49-96 | 97-144 | 145-192 | 193-240 | 241+ |
| NUMBER IN AFS 427X3 SAMPLE | 357 | 147 | 161 | 95 | 75 | 37 |
| PERCENT OF AFS 427X3 SAMPLE | 41% | 17% | 18% | 11% | 9% | 4% |

Task Factor Administration

In addition to completing a job inventory booklet, selected senior 427X3 personnel were also asked to complete a second booklet for either training emphasis or task difficulty. The task difficulty and training emphasis rating booklets are processed separately from the job inventories and these ratings may be used in a number of different analyses discussed in more detail within the report.

Task Difficulty. Each individual completing a task difficulty booklet was asked to rate all of the tasks on a nine-point scale from extremely low to extremely high difficulty, with difficulty defined as the length of time it takes an average incumbent to learn to do the task. Ratings were then adjusted so that tasks of average difficulty have a rating of 5.00.

Task difficulty ratings were independently collected from 46 experienced 7-skill level personnel stationed worldwide in various MAJCOMS (see Table 4). The interrater reliability (as assessed through components of variance of standardized group means) of .93 for these 427X3 raters suggests very good agreement as to which tasks were the most or least difficult. These data provide a relative ordering of tasks indicating the relative degree of difficulty for each task in the inventory.

Job Difficulty Index (JDI). After computing a task difficulty value for each item, it is then possible to compute a Job Difficulty Index (JDI) for the job groups identified in the survey analysis. This index provides a relative measure of which jobs, when compared to other jobs identified, are more or less difficult. An equation using the number of tasks performed and the average difficulty per unit time spent as variables are the basis for the JDI. The index ranges from one for very easy jobs to 25 for very difficult jobs. The indices are adjusted so that the average job difficulty index is 13.00. Thus, the more time a group spends performing difficult tasks, and the more tasks they perform, the higher will be their job difficulty index. The JDI ratings for the 427X3 career ladder can be found in the ANALYSIS OF TASK DIFFICULTY section of this report.

Training Emphasis. Individuals completing training emphasis booklets were asked to rate all of the tasks on a ten-point scale ranging from no training required to extremely heavy training. Training emphasis is a rating of tasks indicating where emphasis should be placed in structured training for first-term personnel. Structured training is defined as training provided at resident technical schools, Field Training Detachments (FTD), Mobile Training Teams (MTT), formal OJT, or any other organized training method. Training emphasis data was independently collected from 65 experienced 7-skill level personnel stationed worldwide in various commands (see Table 4). The interrater reliability (as assessed through components of variance of standardized group means) for these 427X3 raters was extremely good (.95), indicating there was very high agreement among raters as to which tasks require some form of structured training and which did not. In this specialty, tasks rated highest in training emphasis have ratings of 4.1 or above, the average training emphasis rating is 2.6, and those tasks with ratings below 1.1 can be considered as recommended for no or very little emphasis in training.

When used in conjunction with other factors, such as percent members performing, the task difficulty and training emphasis ratings can help provide an insight into the appropriate method of training. This may help validate the lengthening or shortening of specific units of instruction in various training programs.

TABLE 4

COMMAND REPRESENTATION OF 427X3 TASK DIFFICULTY AND TRAINING EMPHASIS RATERS

| COMMANI | <u> </u> | PERCENT OF ASSIGNED | PERCENT OF TASK DIFFICULTY RATERS | PERCENT OF TRAINING EMPHASIS RATERS |
|---------|----------|------------------------|-----------------------------------|-------------------------------------|
| MAC | | 24 | 23 | 16 |
| TAC | | 24 | 14 | 30 |
| SAC | | 20 | 32 | 31 |
| USAFE | | 10 | 11 | 11 |
| PACAF | | 7 | 4 | 3 |
| ATC | | 6 | 11 | 8 |
| AFSC | | 4 | 2 | * |
| AFLC | | 1 | * | 1 |
| MAC | | 1 | 3 | * |
| OTHER | | 3 | _ * | * |
| | TOTAL | 100 | 100 | 100 |

^{*}DENOTES LESS THAN ONE PERCENT

CAREER LADDER STRUCTURE

A key aspect of the occupational analysis program is to examine the job structure of the career ladder on the basis of what people are actually doing in the field, rather than on the basis of how official career ladder documents say they are structured. The analysis of actual job structure is made possible by the use of the Comprehensive Occupational Data Analysis programs (CODAP). By using CODAP, job functions are identified on the basis of similarity in tasks performed and relative time spent performing the tasks.

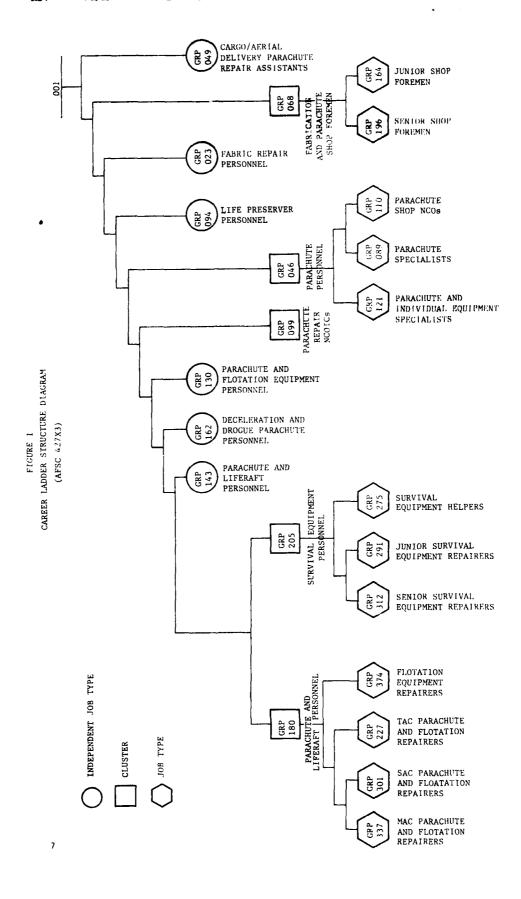
The specialty structure analysis process consists of determining the functional job structure of career field personnel in terms of job types, clusters, and independent job types. A job type is a group of individuals who perform many of the same tasks and also spend similar amounts of time performing them. When there is a substantial degree of similarity between different job types, they are grouped together and labeled as clusters. Finally, there are often cases of specialized job types that are too dissimilar to be grouped into any cluster. These unique groups are labeled independent job types.

Specialty Structure Overview

The job structure for the Fabrication and Parachute career ladder was determined by performing a job type analysis of the 872 survey respondents. Personnel in this career ladder basically fall into four categories of jobs, those which involve servicing and repairing parachutes; those which involve inspecting, maintaining, and repairing liferafts; those involved with inspecting, maintaining, and repairing life preservers, and those involving a combination of these functions.

Based on task similarity and the amount of time spent performing each task, the jobs performed by 427X3 respondents are listed below and illustrated in Figure 1. (Group numbers are shown with each group as a cross-reference to computer printed summaries used in the analysis of the survey data.) The respondents forming these job types and clusters account for 89 percent of the survey sample. The remaining 11 percent of the sample consists of unique cases which did not group with any of the job types or clusters described above. Some of the titles reported by these incumbents were: TCTO Monitor, Unit Safety NCO, Worker E-3, Dorm Manager, and CDC Writer.

- I. PARACHUTE AND LIFERAFT PERSONNEL, (GRP180, N=228)
 - a. MAC Parachute and Flotation Repairers, (GRP337, N=39)
 - b. SAC Parachute and Flotation Repairers, (GRP301, N=69)
 - c. TAC Parachute and Flotation Repairers, (GRP227, N=15)
 - d. Flotation Equipment Repairers (GRP374, N=99)



- II. SURVIVAL EQUIPMENT PERSONNEL, (GRP205 N=53)
 - a. Senior Survival Equipment Repairers, (GRP312, N=17)
 - b. Junior Survival Equipment Repairers, (GRP291, N=16)
 - c. Survival Equipment Helpers, (GRP275, N=14)
- III. PARACHUTE AND LIFERAFT NCOICs (GRP143, N=20)
- IV. DECELERATION AND DROGUE PARACHUTE PERSONNEL (GRP162, N=13)
- V. PARACHUTE AND FLOATION EQUIPMENT PERSONNEL (GRP130, N=21)
- VI. PARACHUTE REPAIR NCOICs (GRP099, N=114)
- VII. PARACHUTE PERSONNEL (GRP046, N=127)
 - a. Parachute and Individual Equipment Specialists (GRP121, N=24)
 - b. Parachute Specialists (GRP089, N=44)
 - c. Parachute Shop NCOs (GRP110, N=30)
- VIII. LIFE PRESERVER PERSONNEL (GRP094, N=15)
 - IX. FABRIC REPAIR PERSONNEL (GRP023, N=43)
 - X. FABRICATION AND PARACHUTE SHOP FOREMEN (GRP068, N=102)
 - a. Senior Shop Foremen (GRP196, N=66)
 - b. Junior Shop Foremen (GRP164, N=15)
 - XI. CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS (GRP049, N=37)

Cluster and Independent Job Type Descriptions

Brief descriptions of each cluster and independent job type are presented below. The three tables at the end of this section reveal additional information about the groups identified. Table 5 reveals the relative percent time spent on duties, and helps to identify which functional areas personnel in the clusters and independent job types concentrate on. For example, Survival Equipment Personnel spend 54 percent of their time inspecting, maintaining, and repairing liferafts and life preservers while parachute personnel only spend three percent of their time on these tasks. Table 6 yields various background information about the groups identified, such as average paygrade, DAFSC, and percent in first enlistment. For example, 86 percent of the Fabrication and Parachute Shop Foremen hold DAFSC 42773, and have an average paygrade of 6.1. Finally, Table 7 reveals job satisfaction data for the groups identified. For example, 74 percent of the Parachute Repair NCOICs plan to reenlist, and 73 percent find their job interesting.

Also included in this report is an appendix which reflects more detailed information on the Fabrication and Parachute career ladder job types within each cluster, such as job satisfaction and a brief summary of differentiating tasks (see Appendix A).

I. PARACHUTE AND LIFERAFT PERSONNEL (GRP180). This group of 228 incumbents is the largest group identified in the anlysis. They also perform the second largest average number of tasks (214) of the reported groups. Fifty-six percent of their time is spent servicing and repairing parachutes; inspecting, maintaining, and repairing liferafts; and inspecting, maintaining, and repairing life preservers. Typical tasks include:

pack life preservers
inflate life preservers
inflate liferafts
perform leak inspections on life preservers
weigh CO2 cartridges
apply talcum powder to liferafts
pack aircraft deceleration parachutes

The average grade of these incumbents is 3.8, and 76 percent of them hold the 5-skill level. The incumbents within this large group spend over 90 percent of their time on technical tasks, and are represented in eight of the major air commands with the majority assigned to SAC, TAC, and MAC.

There are four identifiable job types within the cluster, of which three are command oriented (SAC, TAC, and MAC) and one job type which relates to all three commands. The four job types are MAC Parachute and Flotation Repairers, SAC Parachute and Flotation Repairers, TAC Parachute and Flotation Repairers, and Flotation Equipment Repairers. The differences between the four job types are a matter of degree, with extreme overlap in tasks performed across all four job types. Personnel in this cluster were well satisfied with the utilization of their training, but expressed somewhat less satisfaction with their jobs and utilization of their talents (see Table 7).

II. <u>SURVIVAL</u> <u>EQUIPMENT PERSONNEL</u> (GRP205). This cluster of 53 respondents perform an average of 134 tasks, of which over 70 percent are directly related to survival equipment items. Eighty-one percent of the incumbents are 5- and 7-skill level airmen. Typical tasks performed by this group include:

pack life preservers
deflate life preservers
inflate life preservers
perform functional checks of life preservers
visually inspect life preservers
inspect liferaft accessory survival kits
locate leaks on liferafts

The average grade of the group members is 3.7 and average time in the career field is 50 months. Sixty-four prercent of the incumbents are in their first enlistment. Only 42 percent of the members found their job interesting; however, their perception as to the use of their talents and training was good.

Three job types make up the cluster. The <u>Senior Survival Equipment</u> Repairers have an average grade of 4.6 and average 81 months in the career field. They supervise an average of one person, and perform an average of 155 tasks. Junior Survival Equipment Repairers perform an average of 117

tasks, have 34 months in the career field, and hold an average grade of 3.3. Seventy-five percent of this group are first enlistment personnel. Finally, Survival Equipment Helpers average 28 months in the career field, perform an average of 130 tasks, and hold a grade of 3.4. Eighty-six percent are in their first enlistment.

III. PARACHUTE AND LIFERAFT NCOICs (GRP143). This rather small independent job type of 20 incumbents consists of 5- and 7-skill level incumbents who spend 49 percent of their time exclusively working with parachutes, life preservers, and liferafts. They supervise an average of three persons and have an average grade of 5.2. Typical tasks include:

maintain parachute log forms (AFTO Form 391) inflate liferafts direct liferaft section functions annotate Repairable Item Processing Tag Forms (AFTO Form 350) demonstrate how to locate or interpret technical information pack aircraft declaration parachutes direct personnel parachute section functions

Sixty percent of these incumbents find their jobs interesting, 50 percent feel their talents are well utilized, and 65 percent feel that their training is well utilized.

IV. <u>DECELERATION AND DROGUE PARACHUTE PERSONNEL (GRP162)</u>. The incumbents of this small independent job type (N=13) spend 49 percent of their time servicing and repairing parachutes, and inspecting, maintaining, and repairing life preservers. They perform an average of 139 tasks, have an average grade of 3.8 and average 55 months in the career field. Typical tasks include:

remove or install locator beacons
cut stencils
remove or install pack locking loops
remove or install minor hardware, such as snaps, grommets, eyelets,
or interlocking fasteners
remove or install main canopies
remove or install connector links
clean or lubricate serving machines

Incumbents in this small group do not find their jobs very interesting nor do they perceive that their talents are being well utilized. However, similar to preceding groups, they feel that their training is being well utilized (See Table 7).

V. PARACHUTE AND FLOTATION EQUIPMENT PERSONNEL (GRP130). This is another small independent job type (N=21) which consists primarily of first-term incumbents performing simple tasks related to parachutes, liferafts, and life preservers. Twenty-nine percent are assigned to PACAF and the Alaskan Air Command. Eighty-six percent of the members are 3- and 5-skill level airmen. Average time in the career field is 38 months, and their average grade is 3.4. Typical tasks include:

inflate liferafts
deflate liferafts
deflate life preservers
weigh CO₂ cylinders
inflate life preservers
pack life preservers
break down life preservers for inspection
hang parachutes

Sixty-two percent of the incumbents find their jobs interesting, 57 percent feel that their talents are well utilized, and 86 percent feel that their training is well utilized.

VI. PARACHUTE REPAIR NCOICs (GRP099). The incumbents in this cluster comprise the third largest group in the survey sample (N=114). Ninety-seven percent of the personnel are 5- and 7-skill level airmen who perform the largest average number of tasks of all the groups represented (298). One-fourth or more of their job time is devoted to supervisory duties. However, despite the high amount of supervision, members spend a lot of their job time sewing, lubricating and repairing sewing machines, and storing sewing supplies, such as thread, cordage, and lamps. Their average grade is 5.3, and they average 121 months in the career field which is the second highest experienced group in the survey sample. Typical tasks include:

maintain Parachute Log Forms (AFTO Form 391)
perform completed work inspections
maintain Maintenance Data Collection Record Forms (AFTO Form 349)
determine repair requirements for damaged parachutes
adjust timing of sewing machines
supervise Fabrication and Parachute Specialists (AFSC 42753)
prepare APRs

Sixty-nine percent of these incumbents are in TAC, SAC, or MAC. They have the highest job interest in the survey sample (73 percent), and their perceptions of the utilization of their talents and training are also the highest of any of the groups. Overall, this rather large group of middle level supervsiors has the highest morale indicators in the career ladder (See Table 7).

VII. PARACHUTE PERSONNEL (GRP046). This cluster represents the second largest group in the survey sample (N=127). Members devote over half of their time to servicing and repairing parachutes in seven major air commands. Seventy-five percent of the incumbents are 5-skill level airmen who average 77 months in the career field. They have an average grade of 4.2 and 41 percent are in their first enlistment. Nearly one-third serve in PACAF or USAFE units. Typical tasks include:

inspect personnel parachutes or personnel recovery subsystems pack personnel parachutes or personnel recovery subsystems remove or install main canopies remove or install visors remove or install pilot chutes perform functional tests of canopy releases pack aircraft deceleration parachutes

Only 44 percent of these members find their jobs interesting while 61 percent feel that their talents are being well utilized. Interestingly, 82 percent feel that their training is well utilized and 58 percent indicate that they intend to reenlist.

Within the main cluster, three job types are identified. The first group, Parachute and Individual Equipment Specialists, consists of 24 incumbents principally assigned to TAC and USAFE who perform 94 tasks mainly involving parachute and individual equipment. The second job type, Parachute Specialists, are a larger group of 44 individuals who spend 75 percent of their time servicing and repairing parachutes. They appear across many major air commands. The third group, Parachute Shop NCOs, also appear in various air commands and perform middle level supervision in parachute shops. These NCOs have an average grade of 4.8 and are all 5- and 7-skill level airmen. They supervise an average of three subordinates (see Appendix A for representative tasks and other facts regarding these job types).

VIII. <u>LIFE PRESERVER PERSONNEL (GRP094)</u>. This small independent job type consists of 15 incumbents who devote 66 percent of their time to inspecting, maintaining, and repairing life preservers. Seventy-three percent of the members are in their first enlistment and have an average grade of 3.2, the lowest average grade in the survey sample. Typical tasks include:

pack life preservers
inflate life preservers
visually inspect life preservers
weight CO2 cartridges
perform leak inspections on life preservers
remove or replace life preserver cells
patch life preservers

These incumbents have the lowest job interest in the survey sample (13 percent). They also have very low perceptions as to the use of their talents and training. Not surprisingly, their reenlistment intentions are also the lowest of all groups.

IX. FABRIC REPAIR PERSONNEL (GRP023). Member of this rather sizeable independent job type (N=43) spend 29 percent of their time inspecting, manufacturing, and repairing aircraft soundproofing and upholstery, and manufacturing, repairing, and modifying aircraft fabric items. Thirty-five percent of these incumbents are in their first enlistment and have an average grade of 4.6. Ninety-five percent are 5- and 7-skill level personnel. They appear in six of the major air commands. Typical tasks include:

cut fabric for aircraft fabrications
inspect aircraft fabric items
sew loose seams, rips, snags, or tears of aircraft
fabric items
cut fabric or insulating material for aircraft soundproofing
fabricate protective covers
adjust timing of sewing machines
design protective cover patterns

Only 39 percent of this group find their job interesting. However, perceived use of their talents and training are 56 and 70 percent respectively, and reenlistment intentions are very high with 72 percent indicating they tend to reenlist.

X. FABRICATION AND PARACHUTE SHOP FOREMEN (GRP068). This is the fourth largest group in the survey sample (N=102) and represents the most experienced incumbents in the career field, both in terms of average grade (6.1) and TAFMS (164 months). Seventy-four percent of their time is devoted to supervising and administrative tasks. On the average, they supervise six individuals. Eighty-six percent of these incumbents are 7-skill level personnel. Typical tasks include:

coordinate work activities with other units or agencies establish work priorities prepare APRs assign personnel to duty positions perform completed work inspections develop work methods or procedures direct fabrication and parachute shop functions

The members of this group have a good perception of the use of their talents and training and 63 percent find their jobs interesting.

Within the main cluster, two job types were identified, Senior Shop Foremen and Junior Shop Foremen. As the titles suggest, the Senior Shop Foremen are slightly more experienced and have a higher average grade than the junior incumbents (6.3 versus 5.9). Ninety-two percent of the senior personnel are 7-skill level airmen, while 73 percent of the junior group hold the 7-skill level. Senior Shop Foremen perform an average of 132 tasks versus 75 tasks performed by Junior Shop Foremen. In general, the senior members tend to supervise shops of approximately 7 to 15 personnel, while junior incumbents tend to be assistant shop NCOICs of larger shops, administrative section heads, or heads of other sections in large shops. This may indicate that the senior group does not supervise large shops because 9-skill level personnel are placed in these positions of greater responsibility.

XI. CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS (GRP049). This independent job type consists of predominantly first-term airmen who perform very few tasks (38) and spend 54 percent of their time servicing and repairing parachutes. They also spend 15 percent of their time maintaining shop facilities and equipment. The vast majority are assigned to MAC and over half, 35 personnel, are female. Typical tasks include:

pack cargo or aerial delivery parachutes hang parachutes inspect cargo or aerial delivery parachutes clean parachute packing or work tables patch or darn holes in deployment bags remove or install pilot chutes clean and lubricate serving machines

The personnel of this group have an average grade of 3.2 and only 38 percent find their job interesting. Similarly, their perceptions of the use of their talents and training are also low.

Structure Summary

The picture presented by the analysis of the structure of the Fabrication and Parachute career ladder is one of high homogeneity. All members, except supervisory personnel and Fabric Repair Personnel, spend the majority of their work time in one or more of three duty areas. These duty areas are servicing and repairing parachutes; inspecting, maintaining, and repairing liferafts; and inspecting, maintaining, and repairing life preservers. Although each cluster and independent job type reflects some degree of specialization, there remains a strong degree of job similarity and overlapping commonality of duties and tasks performed. The majority of the incumbents (73 percent) are assigned to MAC, TAC, and SAC. Seventy-eight percent of the career ladder incumbents are E-5 or below, and 44 percent are in their first enlistment.

A review of job interest and related morale indication data (see Table 7) suggests that overall Fabrication and Parachute personnel are not highly interested in their jobs. They also indicate that they do not feel that their talents are being well utilized. Interestingly, they are quite satisfied with their training and their reenlistment intentions are quite high. This apparent incongruity may indicate that although many members are currently dissatisfied with their jobs and use of their talents, they feel that as they progress in their careers they will find greater job satisfaction due to their apparent satisfaction with the training they received. (Table 17 depicts a comparison of 427X3 first-term respondents to a comparative sample of mission equipment maintenance career ladders surveyed in 1979; see TAFMS section of this report.)

Training effectiveness does not appear to have been adversely affected by the merging of AFS 582X1 Parachute Rigger and AFS 582X0 Fabric and Rubber Products in April 1977 to become AFS 427X3 Fabrication and Parachute. Write-in comments concerning the merger were minimal. A small independent job type of fabric repair personnel appears in the Career Ladder Structure who perform few tasks related to parachute or flotation equipment, but the number of personnel is insignificant in light of the general homogeneity existing throughout the ladder.

TABLE 5

RELATIVE PERCENT TIME SPENT ON DUTIES BY JOB CLUSTERS AND INDEPENDENT JOB TYPPS

| | PAPACHITE | | DABACHITE | DECETERATION | PARACHUTE AND | | | | | FABRICATION AND | CARGO/AERIAL |
|---|------------------------------|------------------------------------|-----------------|--------------------------------|------------------------|------------------------------|-----------|--------------------------------|-------------------------------|------------------------------|-----------------------------------|
| | AND LIFERAFT DEPCONNET | SURVIVAL EQUIPMENT PEDSONNET | AND LIFERAFT | AND DROGUE PARACHUTE PERSONNE! | FLOTATION EQUIPMENT | PARACHUTE REPAIR MOTCE | PARACHUTE | LIFE PRESERVER PERSONNET | FABRIC REPAIR PEPSONNET | PARACHUTE SHOP FORFWEN | PARACHUTE REPAIR ASSISTANTS |
| | (N=228) | (N=53) | (N=20) | (N=13) | (N=21) | (N=114) | (N=127) | (N=15) | (N=43) | (N=102) | (N=37) |
| A ORGANIZING AND PLANNING | | - | 9 | - | | 9 | 2 | -}¢ | 4 | 18 | 2 |
| B DIRECTING AND IMPLEMENTING | - | 1 | 6 | 7 | | œ | ٣ | - | 7 | 20 | 7 |
| C INSPECTING AND EVALUATING | 7 | 2 | 9 | 2 | | 80 | 4 | 7 | 5 | 19 | 2 |
| D TRAINING F PRINTETPATHE AND | | 1 | S | - | ÷(| 4 | m | -k | 7 | 6 | , |
| | 7 | 7 | 113 | 7 | e. | 6 | ∞ | 3 | œ | 17 | ∞ |
| PARACHUTES | 22 | 10 | 20 | 36 | 24 | 16 | 52 | 7 | ٣ | ~7 | 24 |
| G TESTING AND DEVELOPING PARACHUTES | | 40 | ન | , | - | ķ | | * | -}c | -tr | |
| H INSPECTING, MAINTAINING, AND REPAIRING LIFERAFTS | 90 | 7 | ĕ | ~ | 7,0 | ۲- | - | 71 | ć | - | - |
| I INSPECTING, MAINTAINING, AND | 2 | ; | 2 | , | į | • | • | ţ | ı | • | • |
| | 14 | 23 | 11 | 13 | 21 | 1 | 2 | 99 | 4 | | -'Y |
| J INSPECTING, MAINTAINING, AND REPAIRING ESCAPE SLIDES | - | 2 | 44 | 4¢ | 40 | ÷ | 40 | ÷ | ÷e | 4 | বং |
| K INSPECTING, MAINTAINING, AND REPAIRING PROTECTIVE CLOTHING | 1~ | , r- | ır | , | ~ | ۲ | ., | ٣ | ~ | ,- | |
| L HODIFYING AND REPAIRING | | | , | • | | • | , | ٦ | , | • | |
| INDIVIDUAL EQUIPMENT MANUFACTURING REPAIRING AND | 3 | | - | ~ | m | ~ | 2 | - | ~ | 4¢ | (4 |
| • | 2 | 2 | 1 | ^, | ÷1 | | - | ÷¢ | 13 | ī | 3 6 |
| N INSPECTING, MANUFACTURING, AND REPAIRING AIRCRAFT SOUNDPROOFING | ₍₂ | | | | | | | | | | |
| AND UPHOLSTERY | e | 7 | * | | 44 | 2 | -34 | ÷6 | 16 | | -;c |
| O INSPECTING, REPAIRING, AND MANUFACTURING PROTECTIVE COVERS | | | | | | | | | | | |
| , | 7 | ~1 | | m | ٣ | 3 | - | * | 10 | | - |
| P INSPECTING, MANUFACTURING, AND REPAIRING RESTRAINING EQUIPMENT | - | | નુંદ | ~ | 44 | | * | - | 2 | 40 | - |

TABLE 5 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY JOB CLUSTERS AND INDEPENDENT JOB TYPES

| CARGO/AERIAL DELIVERY PARACHUTE PEPATE | ASSISTANTS (N=37) | 7.5 | * | + | ı | 2 | * | 15 | s |
|--|----------------------|----------|---|--------------------------------------|--|-------------------|--|---|--|
| FABRICATION AND PARACHUTE SUCE | FOREMEN (N=102) | 1 | 1 | + | ı | | -te | 4 | |
| FABRIC | PERSONNEL (N=63) | 72 | 2 | c | 7 | * | ~ | | |
| LIFE | PERSONNEL (N=15) | 177-11 | H | - | - | * | ન | 7 | - |
| San Control of the Co | PERSONNEL (N=127) | (1) | 4¢ | • | | 2 | 4c | 7 | 4 |
| PARACHUTE | NCOICS (N=114) | (1111) | 2 | • | - | | чc | 7 | 5 |
| PARACHUTE AND FLOTATION | | (17-11) | 40 | 4 | < | 1 | ÷¢. | 'n | 7 |
| DECELERATION AND DROGUE | PERSONNEL (N-12) | (C1=N) | m | | - | 2 | -ţ¢ | 6 | 3 |
| PARACHUTE AND | NCOICS | (107-10) | -j¢ | + | k | ⊰¢ | 44 | 50 | 7 |
| SURVIVAL | PERSONNEL | (CC-N) | 7 | | | - | ⊰દ | 4 | 8 |
| PARACHUTE AND | PERSONNEL | (N-220) | ٣ | F. | - | - | * | 7 | 4 |
| | | | Q INSPECTING, REPAIRING, AND MANUFACTURING THERMAL CURTAINS | R MAINTAINING AND REPAIRING AIRCRAFT | FABRIC SURFACES S MATUTATATATA EVOLUCIUE AND | HAZARDOUS DEVICES | T MAINTAINING MOBILE EQUIPMENT AND FACILITIES | U MAINTAINING SHOP FACILITIES AND EQUIPMENT | V PERFORMING GENERAL MAINTENANCE FUNCTIONS |

*DENOTES LESS THAN ONE PERCENT

TABLE 6
BACKGROUND INFORMATION BY CLINIERS AND INJEENDENT JOB TYPES

| | PARACHUTE AND LIFERAFT PERSONNEL (N=228) | SURVIVAL EQUIPMENT PEKSONNEL (N=53) | PARACHUTE AND LIFERAFT NCOICS (N=20) | DECELERATION AND BROGUE PARACHUTE PERSONNEL (N=13) | PARACHUTE AND FLOTATION EQUIPMENT PERSONNEL (N=21) | PARACHUTE. REPAIR NCGLUS (N=11+) | PARACHUTE PERSONET : N- 127) | LTFE PRESERVER PERSONNEL (N=15) | FABRIC REPATRMEN PERSONNEL (N=43) | FABRICATION AND FARACHUTE SHOP FOREMEN (N=102) | CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS (N=37) |
|--|--|--|--|---|---|----------------------------------|---|---------------------------------|--|---|---|
| AVERAGE NUMBER OF TASKS PERFÜRHED AVERAGE PAY GRADE AVERAGE MIMBER GE | 3.8 | 134 | 181 5.2 | 139 3.8 | 5.6 7.8 | .98 | 83. | 38 3.2 | 74 4.6 | 118 6.1 | 38 3.2 |
| PERSONNEL SUPERVISED | г д. | | 6 | Q | 0 | ~ | 1 | - | 1 | ·o | 0 |
| (JDI) | 15.1 | 11.3 | 15. | 12.0 | 9.6 | 18.5 | 8.6 | 4.3 | 10.0 | 15.9 | 5.9 |
| DAFSC: 42733 42753 42773 | 12% | 15% | 20% 20% | 26.00 | 248 52 4 8 10 8 | ₹ ₹60 2000 2000 | 6 7 7 8 8 8 8 8 8 | 27% | 878 108 108 108 108 108 108 108 108 108 10 | - 1 8 - 24 \$4 | 30% 65% |
| OTHER | <u>2</u> | 5 4 | | λ** Θέ | . 4 - 7 | | 1 | i | • | C1 9-₩ | 6 € ₩^ |
| AVERAGE MONTHS IN CAREER LADDER AVERAGE MONTHS TAFMS PERCENT IN FIRST | 52 56 | \$0 55 | 117 | 16 B | 64 26 | 126 | ∵ € | £3.8 | 86 95 | 164 | 33 34 |
| ENLISTMENT PERCENT FEMALES | 65% 17% | 64% 28% | 10% 5% | 62% 15% | 338 | 11. 11. | 41% 16% | 73% 20% | 35% | 9. 14 14 14 | 89% 35% |

TABLE 7

JOB INTEREST AND RELATED DATA BY CLUSTERS AND INDEPENDENT JOB TYPES

| CARGO/AERIAL | DELIVERY PARACHUTE REPAIR ASSISTANTS (N=37) | 38 54 54 36 54 36 54 | • | 267 | \$1\$ | ı | % 17 | 29% | 32 % 68 % |
|--------------|--|---------------------------------------|-----------------------------|-----------------------------------|---------------------------------------|------------------------------|--------------------------------|--------------------------|--|
| EADDICATION | PARACHUTE SHOP FOREMEN (N=102) | 18% 19% 63% | • | 22% | 78% | 11 | 21% | 787 | 75 75 75 75 75 75 75 75 75 75 75 75 75 7 |
| | FABRIC REPAIR PERSONNEL (N=43) | 35% 2 6% 39 % | , | **** | 295 | • | 30% | 707 | 28% 72% |
| | LIFE PRESERVER PERSONNEL (N=15) | 67% 20% 13% | , | 73% | 27% | • | 7.15 | \$3% | 73% |
| | PARACHUTE PERSONNEL (N=127) | 25% 44% 44% | | 39% | 61% | 16% | 82% | 2 % | 42% 58% |
| | PARACHUTE REPAIR NCOICS (N=114) | 11% 16% 73% | | 18% | 82% | , | *L | 33% | 26% 74% |
| | PARACHUTE AND FLOTATION EQUIPPENT PERSONNEL (N=21) | 19% 19% 62% | | - 7 | 57% | • | 14% | 798 | 67% 28% 5% |
| | DECELERATION AND DROGUE PARACHUTE PERSONNEL (N=13) | 23% 39% 38% | | - ' | 54% | | , , , , | 92% | 39% 61% - |
| | PARACHUTE AND 1.1 FERAFT NCO1Cs (N=20) | 15% 25% 60% | | , 8 | \$05 \$04 | 3 | 101 25% | 1 59 | 301 906 - |
| • | SURVIVAL EQUIPMENT PERSONNEL (N=53) | 26% 32% 42% | | | 30% | ; | 54 57 57 7 | % 26 | 454 558 558 |
| | PARACHUTE AND LIFERAFT PERSONNEL (N=228) | 27% 32% 51% | TALENTS: | | %09 %07 | TRAINING: | , *ot | 4 06 | 39% |
| 18 | | I FIND HY JOB: DULL SO-SO INTERESTING | MY JOB UTILIZES MY TALENTS: | NO RESPONSE NOT AT ALL TO VERY | LITTLE FAIRLY WELL TO PERFECTLY | MY JOB UTILIZES MY TRAINING: | NO RESPONSE NOT AT ALL TO VERY | FAIRLY WELL TO PERFECTLY | I PLAN TO REENLIST: NO YES NO RESPONSE |

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups forms a part of each occupational analysis. The DAFSC analysis helps to identify differences among skill level groups within the 427X3 specialty. It also aids in the analysis of career ladder documents, such as AFR 39-1 Specialty Descriptions and the Specialty Training Standard (STS).

The DAFSC analysis of the 427X3 career ladder will discuss the duties and tasks common to each skill level group, as well as tasks which best differentiate the 3-, 5-, and 7-skill level. The 9-skill level and CEM Code 42700 were not included in the current survey because they may derive from one of six career ladders and thus are not addressed in this survey.

DAFSC 427X3 Skill Level Comparisons

Three- and 5-skill level personnel were examined both on the basis of tasks and duties performed. In general, the jobs performed by personnel in both skill levels were essentially the same, primarily involving servicing and repairing parachutes; inspecting, maintaining, and repairing liferafts; and inspecting, maintaining, and repairing life preservers. These incumbents account for 69 percent of the career ladder. Table 8 reveals that 3- and 5-skill level incumbents spend 51 percent of their job time on these three duties. Supervision duties account for 10 percent or less of their time. Tables 9 and 10 lists the most common tasks performed by 42733/53 personnel such as remove or install connector links, clean or lubricate sewing machines, hang parachutes, and clean parachute packing or work tables. Most of these common tasks involve servicing and repairing parachutes, and inspecting, maintaining, and repairing liferafts or life preservers.

Seven-skill level incumbents spend 55 percent of their job time performing supervisory duties or performing administrative and supply functions. Only 45 percent of their time is spent on the technical aspects of the job, compared to 84 percent at the 3- and 5-skill levels. Table 11 reveals the most common tasks performed by 42773 personnel. Tables 12 and 13 portray tasks which best distinguish differences between skill level groups, while Table 14 show DAFSC distribution across the major job groups identified in the survey sample.

Summary

In the analysis of skill level groups, we see a rather typical progression of increasing supervision as the skill level increases. However, 7-skill level personnel continue to perform a rather high percentage of technical tasks (45 percent of their job time), indicating a rather substantial number of working supervisors. This is indicative of a fairly high degree of homogeneity within the career ladder, which is common among trade-related occupations.

TABLE 8

RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY DAFSC GROUPS

| DU | TIES | 42733 AND 42753 PERSONNEL (N=594) | PERSONNEL |
|----|--|---|-----------|
| A | ORGANIZING AND PLANNING | 3 | 11 |
| В | DIRECTING AND IMPLEMENTING | 3 | 13 |
| С | INSPECTING AND EVALUATING | 3 | 12 |
| D | TRAINING | 1 | 6 |
| E | PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS | 6 | 13 |
| F | SERVICING AND REPAIRING PARACHUTES | 26 | 12 |
| G | TESTING AND DEVELOPING PARACHUTES | 1 | ¥ |
| H | | 14 | 6 |
| Ι | INSPECTING, MAINTAINING, AND REPAIRING LIFE PRESERVERS | 11 | 4 |
| J | INSPECTING, MAINTAINING, AND REPAIRING ESCAPE SLIDES | 1 | * |
| K | INSPECTING, MAINTAINING, AND REPAIRING PROTECTIVE CLOTHING | 6 | 4 |
| L | MODIFYING AND REPAIRING INDIVIDUAL EQUIPMENT | 2 | 1 |
| M | MANUFACTURING, REPAIRING, AND MODIFYING AIRCRAFT FABRIC | | |
| | ITEMS | 3 | 2 |
| N | INSPECTING, MANUFACTURING, AND REPAIRING AIRCRAFT | | |
| | SOUNDPROOFING AND UPHOLSTERY | 2 | 2 |
| 0 | INSPECTING, REPAIRING, AND MANUFACTURING PROTECTIVE COVERS | | |
| | AND BOMB OR STRAFING TARGETS | 2 | 2 |
| P | INSPECTING, MANUFACTURING, AND REPAIRING RESTRAINING | | |
| | EQUIPMENT | 1 | 1 |
| Q | | 2 | 1 |
| R | MAINTAINING AND REPAIRING AIRCRAFT FABRIC SURFACES | 1 | * |
| S | MAINTAINING EXPLOSIVE AND HAZARDOUS DEVICES | 1 | 1 |
| T | MAINTAINING MOBILE EQUIPMENT AND FACILITIES | * | * |
| U | MAINTAINING SHOP FACILITIES AND EQUIPMENT | 7 | 6 |
| V | PERFORMING GENERAL MAINTENANCE FUNCTIONS | 4 | 3 |

^{*} DENOTES LESS THAN ONE PERCENT

TABLE 9

REPRESENTATIVE TASKS PERFORMED BY DAFSC 42733 PERSONNEL (N=87)

| TASKS | | 3-SKILL LEVEL MEMBERS PERFORMING |
|-------|--|--|
| F222 | REMOVE OR INSTALL CONNECTOR LINKS | 71 |
| | CLEAN AND LUBRICATE SEWING MACHINES | 70 |
| F187 | HANG PARACHUTES | 68 |
| F194 | MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 68 |
| J356 | PACK LIFE PRESERVERS | 68 |
| J359 | PERFORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 68 |
| J376 | VISUALLY INSPECT LIFE PRESERVERS | 67 |
| J351 | DEFLATE LIFE PRESERVERS | 67 |
| | REMOVE OR INSTALL PILOT CHUTES | 67 |
| | REMOVE OR INSTALL PACKS, DEPLOYMENT BAGS, OR CONTAINERS | 64 |
| | INFLATE LIFE PRESERVERS | 64 |
| | REMOVE OR INSTALL CARBON DIOXIDE (CO2) CARTRIDGES | 64 |
| | BREAK DOWN LIFE PRESERVERS FOR INSPECTION | 64 |
| | CUT STENCILS | 64 |
| | STENCIL INFORMATION ON LIFE PRESERVERS | 63 |
| | PERFORM LEAK INSPECTIONS ON LIFE PRESERVERS | 63 |
| | PATCH OR DARN HOLES IN DEPLOYMENT BAGS | 63 |
| | INFLATE LIFERAFTS | 62 |
| | REMOVE OR INSTALL RISERS | 61 |
| | WEIGH CO2 CARTRIDGES | 61 |
| | CLEAN FACILITIES | 60 |
| | CLEAN PARACHUTE PACKING OR WORK TABLES | 60 |
| | DEFLATE LIFERAFTS | 60 |
| | MAINTAIN AUTOMATIC RIPCORD RELEASE LOG FORMS (AFTO FORM 393) | 56 |
| K447 | SEW ITEMS SUCH AS NAME TAGS, UNIT PATCHES, OR VELCRO TAPE ONTO | |
| | PROTECTIVE OR ORGANIZATIONAL CLOTHING | 56 |

TABLE 10 REPRESENTATIVE TASKS PERFORMED BY DAFSC 42753 PERSONNEL (N=507)

| TASKS | | 5-SKILL LEVE MEMBERS PERFORMING |
|-------|---|---------------------------------------|
| U649 | CLEAN AND LUBRICATE SEWING MACHINES MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) REMOVE OR INSTALL CONNECTOR LINKS CUT STENCIES | 75 |
| F194 | MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 72 |
| F222 | REMOVE OR INSTALL CONNECTOR LINKS | 71 |
| V692 | CUT STENCILS | 70 |
| U652 | CLEAN FACILITIES | 69 |
| Մ250 | REMOVE OR INSTALL PILOT CHUTES | 69 |
| F244 | REMOVE OR INSTALL MINOR HARDWARE, SUCH AS SNAPS, GROMMETS, EYELET | S, |
| | OR INTERLOCKING FASTENERS | 69 |
| U653 | CLEAN PARACHUTE PACKING OR WORK TABLES | 67 |
| | REMOVE OR INSTALL RISERS | 66 |
| | WAX THREADS OR CORDS | 66 |
| | HANG PARACHUTES | 65 |
| | REMOVE OR INSTALL PACKS, DEPLOYMENT BAGS, OR CONTAINERS | 65 |
| | REMOVE OR INSTALL MAIN CANOPIES | 64 |
| | INFLATE LIFE PRESERVERS | 64 |
| | PACK PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | |
| F269 | | 63 |
| | PACK LIFE PRESERVERS | 62 |
| | INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | |
| | PERFORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 62 |
| | DEFLATE LIFE PRESERVERS | 61 |
| | ADJUST TIMING OF SEWING MACHINES | 60 |
| 1360 | PERFORM LEAK INSPECTIONS ON LIFE PRESERVERS | 60 |
| U671 | | |
| | NEEDLES, LAMPS, OR PRESSURE FEET | 60 |
| 1376 | VISUALLY INSPECT LIFE PRESERVERS | 59 |
| J365 | REMOVE OR INSTALL LIFE PRESERVER CELLS | 59 |

TABLE 11

REPRESENTATIVE TASKS PERFORMED BY DAFSC 42773 PERSONNEL (N=268)

| TASKS | | 7-SKILL LEVEL MEMBERS PERFORMING |
|-------|---|--|
| C109 | PREPARE APRs | 79 |
| D129 | ORIENT NEWLY ASSIGNED PERSONNEL | 76 |
| | INSPECT PERSONNEL | 73 |
| | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES | 73 |
| | COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED PROBLEMS INITIATE OR MAINTAIN ON-THE-JOB TRAINING RECORD FORMS | 73 |
| | (AF FORM 623) | 72 |
| | ASSIGN PERSONNEL TO DUTY POSITIONS | 72 |
| | REVIEW TRAINING PROGRESS OF INDIVIDUALS | 71 |
| E169 | PREPARE UNSERVICEABLE (CONDEMNED) TAG MATERIEL FORMS | |
| | (DD FORM 1577) | 71 |
| | ORDER PARTS OR SUPPLIES | 70 |
| | CERTIFY PROFICIENCY OF SUBORLINATES | 69 |
| | PERFORM COMPLETED WORK INSPECTIONS | 68 |
| | STORE THREAD AND CORDAGE | 67 |
| | SUPERVISE FABRICATION AND PARACHUTE SPECIALISTS (AFSC 42753) | |
| | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES | |
| | PREPARE SERVICEABLE TAG-MATERIEL FORMS (DD FORM 1574) | 66 |
| | MAINTAIN MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349) | |
| | ANNOTATE REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORM 350) | 65 |
| | DIRECT FABRICATION AND PARACHUTE SHOP FUNCTIONS | 65 |
| A14 | ESTABLISH EQUIPMENT OR SUPPLY REQUIREMENTS | 64 |
| A22 | ESTABLISH WORK PRIORITIES | 63 |
| E176 | STORE TEXTILES | 63 |
| C110 | PREPARE INDIVIDUAL RECOMMENDATIONS FOR PROMOTION, UPGRADING, | |
| | DEMOTION, OR DOWNGRADING | 62 |
| E173 | RESEARCH INFORMATION IN PUBLICATIONS | 62 |
| D119 | CONDUCT OJT OR QUALIFICATION TRAINING | 62 |

TABLE 12

TASKS WHICH BEST DISTINGUISH DAFSCs 42733 VERSUS 42753 PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | DAFSC 42733 | DAFSC 42753 | DIFFERENCE |
|-------|---|----------------|----------------|------------|
| F261 | REMOVE OR INSTALL SUSPENSION LINES | 33 | 22 | +11 |
| G283 | MEASURE PARACHUTE COMPONENT DIMENSIONS | 19 | 8 | +11 |
| N499 | PATCH AIRCRAFT BATTING INSULATION | 24 | 14 | +10 |
| F270 | WASH CANOPIES | 29 | 19 | +10 |
| F219 | REMOVE OR INSTALL CANOPY PANELS | 28 | 18 | +10 |
| B72 | SUPERVISE FABRICATION AND PARACHUTE SPECIALISTS | | | |
| | (AFSC 42753) | 2 | 24 | -22 |
| B40 | COUNSEL SUBORDINATES ON PERSONAL OR MILITARY | | | |
| | RELATED PROBLEMS | 2 | 23 | -21 |
| D129 | ORIENT NEWLY ASSIGNED PERSONNEL | 8 | 29 | -21 |
| C109 | PREPARE APRS | 2 | 22 | -20 |
| E157 | ORDER PARTS OR SUPPLIES | 10 | 30 | -20 |
| C77 | CERTIFY PROFICIENCY OF SUBORDINATES | 2 | 21 | -19 |
| A1 | ASSIGN PERSONNEL TO DUTY POSITIONS | 5 | 24 | -19 |
| U664 | INSPECT STENCIL MACHINES | 22 | 41 | -19 |
| D119 | CONDUCT OJT OR QUALIFICATION TRAINING | 7 | 25 | -18 |
| A22 | ESTABLISH WORK PRIORITIES | 7 | 25 | -18 |

TABLE 13

TASKS WHICH BEST DISTINGUISH DAFSC 42753 VERSUS 42773 PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | DAFSC 42753 | DAFSC 42773 | DIFFERENCE |
|-------|--|----------------|----------------|-------------|
| C109 | PREPARE APRs | 22 | 79 | ~ 57 |
| C103 | INSPECT PERSONNEL | 18 | 73 | ~ 55 |
| D128 | INITIATE OR MAINTAIN ON-THE-JOB TRAINING RECORD | | | |
| | FORMS (AF FORM 623) | 17 | 72 | ~ 55 |
| D130 | REVIEW TRAINING PROGRESS OF INDIVIDUALS | 18 | 71 | - 53 |
| B40 | COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED | | | |
| | PROBLEMS | 23 | 73 | - 50 |
| C110 | PREPARE INDIVIDUAL RECOMMENDATIONS FOR PROMOTION, | | | |
| | UPGRADING, DEMOTION, OR DOWNGRADING | 13 | 62 | -49 |
| B67 | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR | | | |
| | SUBORDINATES | 17 | 66 | -49 |
| A 1 | ASSIGN PERSONNEL TO DUTY POSITIONS | 24 | 72 | -48 |
| A14 | ESTABLISH EQUIPMENT OR SUPPLY REQUIREMENTS | 16 | 64 | -48 |
| A3 | ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL | 9 | 57 | -48 |
| Α4 | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR | | | |
| | AGENCIES | 25 | 73 | -48 |
| U77 | CERTIFY PROFICIENCY OF SUBORDINATES | 21 | 69 | -48 |
| D129 | ORIENT NEWLY ASSIGNED PERSONNEL | 22 | 76 | -48 |
| A35 | SCHEDULE LEAVES OR PASSES | 7 | 53 | -46 |
| C95 | EVALUATE WORK SCHEDULES | 11 | 56 | - 45 |

TABLE 14

DAFSC DISTRIBUTION ACROSS MAJOR JOB GROUPS

| JOB GROUPS | DAFSC 42733 AND 42753 (N=537) | DAFSC 42773 (N=226) | OTHER* (N=10) |
|---|---|---------------------------|------------------|
| PARACHUTE AND LIFERAFT PERSONNEL | 201 | 25 | 2 |
| SURVIVAL EQUIPMENT PERSONNEL | 46 | 5 | 2 |
| PARACHUTE AND LIFERAFT NCOICS | 20 | - | - |
| DECELERATION AND DROGUE PARACHUTE PERSONNEL | 11 | 1 | 1 |
| PARACHUTE AND FLOTATION EQUIPMENT PERSONNEL | 18 | 2 | 1 |
| PARACHUTE REPAIR NCOICs | 47 | 67 | - |
| PARACHUTE PERSONNEL | 103 | 24 | - |
| LIFE PRESERVER PERSONNEL | 15 | - | - |
| FABRIC REPAIR PERSONNEL | 29 | 14 | - |
| FABRICATION AND PARACHUTE SHOP FOREMEN | 12 | 88 | 2 |
| CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS | 35 | - | 2 |

*OTHER INCLUDES AFS 42750, 99007, OR NOT REPORTED

COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data for the 427X3 career ladder were compared to AFR 39-1 Specialty Descriptions, dated 1 June 1977. These descriptions are intended to give a broad overview of the duties and tasks required to be performed by the various skill level personnel.

Overall the 3-, 5-, and 7-skill level description were found to provide a clear, concise overview of the major duties and tasks performed by these incumbents.

ANALYSIS OF EXPERIENCE (TAFMS) GROUPS

In order to assess the normal pattern of change in jobs as a function of experience, differences in tasks performed at various points of service in the career ladder can be analyzed. In the Fabrication and Parachute career ladder, no major deviations from the typical pattern of increasing the spent on supervisory tasks with increasing months TAFMS were noted. Junior incumbents reported spending a greater percentage of their time containing, and duties, such as servicing and repairing parachutes; inspecting, maintaining, and repairing life preservers, while more senior incumbents spent a greater percentage of their time on supervisory duties (see Table 15).

The more senior airmen typically spend more time on supervisory tasks, such as preparing APRs or counseling personnel on personal or military related problems. However, technical tasks involving servicing and repairing parachutes; and inspecting, maintaining, and repairing liferafts and life preservers continue to make up a majority of the job time for those incumbents with less than 192 months in the career ladder. Therefore, many of the senior incumbents in this career ladder seem to be working supervisors, i.e., perform both technical and supervisory tasks.

First Enlistment Personnel

In addition to the general TAFMS analysis, first enlistment personnel were examined on the basis of tasks performed and various job satisfaction indices. Table 16 lists the most common tasks performed. It is interesting to note that the majority of tasks are relatively simple, but nonetheless, reflect the homogenity of the career ladder to a great extent.

The 427X3 first enlistment respondents were also examined on various job satisfaction indicators (see Table 17), including perceived job interest, perceived utilization of talents and training, and reenlistment intentions. 427X3 job satisfaction data were contrasted with a comparative sample of first enlistment personnel from all mission equipment maintenance career ladders (AFS 30XXX, 31XXX, 32XXX, 34XXX, 36XXX, 40XXX, 42XXX, 43XXX, 44XXX, and 46XXX) surveyed in 1979. When compared to that mission equipment maintenance sample group, 427X3 career ladder respondents indicated their job interest and perceived utilization of their talents to be lower. This suggests that first-term Fabrication and Parachute personnel have a somewhat negative perception of their jobs. It should be noted, however, that their perceptions as to the use of their training and their reenlistment intentions are higher than those of the sample group. This may be indicative of the repetitive and boring nature of some of the tasks performed by first termers, such as clean facilities; hang parachutes; remove or install packs, deployment bags, or containers; inspect personnel parachutes or personnel recovery subsystems; and patch or darn holes in deployment bags (see Table 16). The more positive attitudes as to their perceptions of their training and their relative high reenlistment intentions could well indicate that 427X3 first term respondents visualize a more fulfilling job as they progress in their careers.

In addition to the analysis of the common tasks performed and job satisfaction perceptions, first enlistment personnel were examined to determine which jobs they perform in the field. This analysis can aid training personnel in refining areas of instruction. Table 18 shows the first enlistment distribution across all major job groups identified in the CAREER LADDER STRUCTURE section. The majority of first enlistment personnel (76 percent) are concentrated in four groups--Parachute and Liferaft Personnel; Parachute Personnel, Survival Equipment Personnel, and Cargo/Aerial Delivery Parachute Repair Assistants (see Figure 2). The tasks performed and job descriptions of these four groups should be closely examined by training personnel to help determine course curricula.

Finally, Table 19 presents the first enlistment personnel distribution across major air commands. The bulk of the first enlistment personnel in this specialty are assigned to the major operational commands (MAC, TAC, and SAC) with the remainder distributed among a number of other commands and agencies. This distribution suggests that the major OJT burden falls to commands such as MAC, TAC, and SAC.

TABLE 15

RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY TAFMS GROUPS

| | | | | MONTHS | TAFMS | | |
|------------|--|-----------------|--------------|-------------------|-------------------|-------------------|----------------|
| 8 | DUTIES | 1-48 (N=357) | (N=147) | 97-144 (N=161) | 145-192 (N=95) | 193-240 (N=75) | 241+ (N=37) |
| ⋖ : | ORGANIZING AND PLANNING | | 4 | 7 | 10 | 12 | 15 |
| 2 | DIRECTING AND IMPLEMENTING | - | 4 | 8 | 10 | 16 | 16 |
| ပ | INSPECTING AND EVALUATING | 2 | 7 | 7 | 10 | 15 | 17 |
| ۵ | | - | 2 | 7 | 2 | 7 | ∞ |
| Œ | PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS | 5 | 9 | 6 | 11 | 14 | 16 |
| بعا | SERVICING AND REPAIRING PARACHUTES | 29 | 24 | 19 | 14 | 6 | 9 |
| G | TESTING AND DEVELOPING PARACHUTES | , | , | | | નેર | ⊰ < |
| H | INSPECTING, MAINTAINING, AND REPAIRING LIFERAFTS | 15 | 14 | 6 | 7 | 2 | 3 |
| | | | | | | | |
| | PRESERVERS | 12 | 11 | 7 | 2 | က | 7 |
| _ | INSPECTING, MAINTAINING, AND REPAIRING ESCAPE | | | | | | |
| | SLIDES | | ,I | 7 | * | -}¢ | -}¢ |
| × | INSPECTING, MAINTAINING, AND REPAIRING PROTECTIVE | | | | | | |
| | CLOTHING | 7 | 5 | 2 | 4 | 2 | 2 |
| | MODIFYING AND REPAIRING INDIVIDUAL EQUIPMENT | 7 | 7 | 7 | 2 | - | |
| Σ | MANUFACTURING, REPAIRING, AND MODIFYING AIRCRAFT | | | | | | |
| | | က | 7 | 7 | 7 | 7 | |
| z | INSPECTING, MANUFACTURING, AND REPAIRING AIRCRAFT | | | | | | |
| | ING AND UPHOLS' | က | 2 | 7 | 5 | _ | - |
| 0 | INSPECTING, REPAIRING, AND MANUFACTURING PROTECTIVE | | | | | | |
| | | 2 | 2 | က | 2 | 2 | , |
| Ь | INSPECTING, MANUFACTURING, AND REPAIRING RESTRAINING | | | | | | |
| | | , | | , | 1 | | -¦< |
| 0 | INSPECTING, REPAIRING, AND MANUFACTURING THERMAL | | | | | | |
| | CURTAINS | 2 | 2 | ~ | | 1 | _ |
| 24 | MAINTAINING AND REPAIRING AIRCRAFT FABRIC SURFACES | _ | 7 | -}¢ | 4¢ | નુત | -)¢ |
| S | MAINTAINING EXPLOSIVE AND HAZARDOUS DEVICES | ~ | _ | - | - | - | , |
| [| MAINTAINING MOBILE EQUIPMENT AND FACILITIES | નું¢ | | ÷ | - ;c | ન્દ | ⊰¢ |
| n | MAINTAINING SHOP FACILITIES AND EQUIPMENT | 7 | 9 | 7 | 7 | 7 | 9 |
| > | PERFORMING GENERAL MAINTENANCE FUNCTIONS | 7 | 7 | 7 | က | 7 | 7 |
| | | | | | | | |

* DENOTES LESS THAN ONE PERCENT

TABLE 16

REPRESENTATIVE TASKS PERFORMED BY 427X3 INCUMBENTS WITH 1-48 MONTHS TAFMS

| TASKS | | MEMBERS PERFORMING (N=357) |
|-------|---|----------------------------|
| F194 | MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 100 |
| | CLEAN FACILITIES | 100 |
| F187 | HANG PARACHUTES | 96 |
| | REMOVE OR INSTALL PACKS, DEPLOYMENT BAGS, OR CONTAINERS | |
| U653 | CLEAN PARACHUTE PACKING OR WORK TABLES | 88 |
| F191 | INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 87 |
| K447 | | 07 |
| K447 | ONTO PROTECTIVE OR ORGANIZATIONAL CLOTHING | 85 |
| F222 | | 95 84 |
| | | 81 |
| | CLEAN AND LUBRICATE SEWING MACHINES | |
| | INSPECT AIRCRAFT DECELERATION PARACHUTES | 71 |
| | PATCH OR DARN HOLES IN DEPLOYMENT BAGS | 66 |
| U671 | , ———————————————————————————————————— | 5.0 |
| E00/ | CHANGING NEEDLES, LAMPS, OR PRESSURE FEET | 59 |
| | PATCH OR DARN HOLES IN MAIN CANOPIES | 49 |
| | PACK CARGO OR AERIAL DELIVERY PARACHUTES | 48 |
| | INSPECT CARGO OR AERIAL DELIVERY PARACHUTES | 44 |
| B70 | | |
| | (AFSC 42733) | 13 |
| A9 | | 11 |
| D119 | CONDUCT OJT OR QUALIFICATION TRAINING | 9 |
| D121 | DEMONSTRATE HOW TO LOCATE OR INTERPRET TECHNICAL INFORMATION | |
| A29 | PLAN REPACK FLOW PLANS | 6 |
| B72 | SUPERVISE FABRICATION AND PARACHUTE SPECIALISTS | |
| | (AFSC 42753) | 5 |
| J380 | APPLY OUTSIDE PATCHES TO ESCAPE SLIDES | 5 |
| B40 | COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED | |
| | PROBLEMS | 3 |
| J387 | INSPECT ESCAPE SLIDE COMPRESSED AIR CYLINDERS FOR CORRECT | |
| | PRESSURE | 0 |
| C100 | DDFDADE ADDe | |

TABLE 17

EXPRESSION OF JOB INTEREST, PERCEIVED UTILIZATION OF TALENTS AND TRAINING, AND REENLISTMENT INTENTIONS OF PERSONNEL WITH 1-48 MONTHS TAFMS

| | 427X3 FIRST-TERM RESPONDENTS (N=357) | 1979 COMPARATIVE SAMPLE MISSION EQUIPMENT MAINTENANCE CAREER LADDERS* (N=6,124) |
|--|--|---|
| I FIND MY JOB: | | |
| NOT REPORTED DULL SO-SO | - 36 27 | 2 19 23 |
| INTERESTING | 37 | 56 |
| MY JOB UTILIZES MY TALENTS: | | |
| NOT REPORTED NOT AT ALL OR VERY LITTLE FAIRLY WELL OR BETTER | - 49 51 | 1 34 65 |
| MY JOB UTILIZES MY TRAINING: | | |
| NOT REPORTED NOT AT ALL OR VERY LITTLE FAIRLY WELL OR BETTER | 2 18 80 | 1 30 69 |
| DO YOU PLAN TO REENLIST: | | |
| NOT REPORTED NO OR PROBABLY NO YES OR PROBABLY YES | 1 56 43 | 2 64 34 |

^{*} AFS 30XXX, 31XXX, 32XXX, 34XXX, 36XXX, 40XXX, 42XXX, 43XXX, 44XXX, AND 46XXX

TABLE 18
FIRST ENLISTMENT PERSONNEL DISTRIBUTION ACROSS MAJOR JOB GROUPS

| MAJOR JOB GROUPS | FIRST ENLISTMENT PERSONNEL (N=357) |
|---|---|
| PARACHUTE AND LIFERAFT PERSONNEL | 150 |
| SURVIVAL EQUIPMENT PERSONNEL | 36 |
| PARACHUTE AND LIFERAFT NCOICs | 2 |
| DECELERATION AND DROGUE PARACHUTE PERSONNEL | 8 |
| PARACHUTE AND FLOTATION EQUIPMENT PERSONNEL | 14 |
| PARACHUTE REPAIR NCOICs | 11 |
| PARACHUTE PERSONNEL | 54 |
| LIFE PRESERVER PERSONNEL | 11 |
| FABRIC REPAIR PERSONNEL | 14 |
| FABRICATION AND PARACHUTE SHOP FOREMEN | 1 |
| CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS | 32 |
| NOT CROUPED | 24 |

FIGURE 2

DISTRIBUTION OF FIRST ENLISTMENT PERSONNEL ACROSS CAREER LADDER JOBS (PERCENT MEMBERS RESPONDING) (N=357)

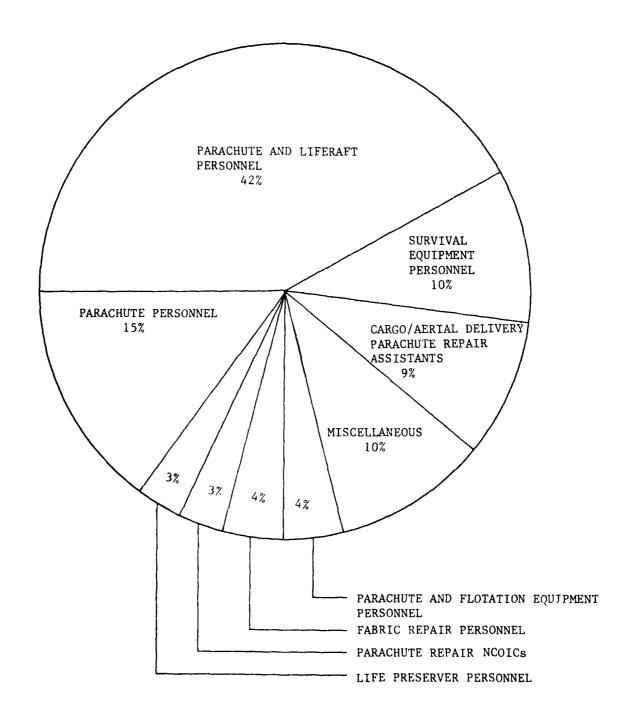


TABLE 19 FIRST ENLISTMENT PERSONNEL DISTRIBUTION ACROSS MAJOR AIR COMMANDS

| MAJOR AIR COMMAND | FIRST ENLISTMENT PERSONNEL (N=357) |
|-----------------------------|------------------------------------|
| MILITARY AIRLIFT COMMAND | 121 |
| TACTICAL AIR COMMAND | 79 |
| STRATEGIC AIR COMMAND | 75 |
| US AIR FORCE, EUROPE | 25 |
| PACIFIC AIR FORCE | 21 |
| AIR TRAINING COMMAND | 14 |
| AIR FORCE SYSTEMS COMMAND | 11 |
| AIR FORCE LOGISTICS COMMAND | 7 |
| OTHER | 4 |

ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

A comparison was made of the tasks performed and the background data for DAFSC 427X3 respondents assigned within CONUS versus those assigned to overseas locations. As expected, the jobs performed by these two groups are essentially the same, however, some minor differences are noted. Overseas respondents spend 86 percent of their job time performing parachute inspections, while CONUS personnel spend 58 percent of their job time on the same duty. Likewise, overseas respondents spend 85 percent of their job time performing parachute packing tasks, while CONUS personnel spend 56 percent of their time on the same duty. Also, a larger percentage of overseas personnel performed protective clothing repairing tasks, such as sewing name tags or unit patches onto clothing, than CONUS incumbents (see Table 19).

Background differences between CONUS and overseas respondents were also found. Overseas incumbents hold slightly higher average grades (4.1 versus 3.9) but are slightly less experienced in the career field (56 months versus 59 months). Average number of tasks performed were nearly identical (146 for CONUS personnel versus 145 for overseas personnel). Overseas personnel were more satisfied with their jobs, had a slightly higher perception of the use of their talent and training and also indicated a greater reenlistment intention than did their CONUS counterparts (70 percent versus 58 percent).

TABLE 20

REPRESENTATIVE TASKS WHICH BEST DISTINGUISH DAFSC 42753
CONUS AND OVERSEAS PERSONNEL
(PERCENT MEMBERS PERFORMING)

| TASKS | | CONUS (N=394) | OVERSEAS (N=112) | DIFFERENCE |
|-------|---|------------------|------------------|------------|
| K447 | SEW ITEMS SUCH AS NAME TAGS, UNIT PATCHES, OR VELCRO TAPE ONTO | 07 | 0 | . 25 |
| A8 | DEVELOP ORGANIZATIONAL CHOIMING | 90 | 36 36 | -34 |
| F188 | [2] | 5.1 | 84 | -33 |
| F197 | PACK AIRCRAFT DECELERATION PARACHUTES | 67 | 80 | -31 |
| L459 | REMOVE OR REPLACE HARDWARE ON SURVIVAL VESTS | 12 | 42 | -30 |
| A17 | ESTABLISH PERSONNEL REQUIREMENTS | 6 | 38 | -29 |
| K441 | REMOVE, REPLACE, OR RESTITCH ZIPPERS OR OTHER HARDWARE ON | | | |
| | ORGANIZATIONAL CLOTHING | 18 | 45 | -27 |
| T464 | SEW POCKETS ONTO SURVIVAL VESTS | 15 | 42 | -27 |
| L452 | ATTACH HOLSTERS TO SURVIVAL VESTS | 14 | 41 | -27 |
| K440 | REMOVE OR REPLACE WRIST CUFFS, WAISTBANDS, OR COLLARS ON | | | |
| | ORGANIZATIONAL CLOTHING | 19 | 45 | -26 |
| F200 | PACK PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 63 | 88 | -26 |
| U652 | CLEAN FACILITIES | 9/ | 100 | -24 |
| K445 | REPLACE PARTS OF CWU-21/P ANTIEXPOSUTE SUITS, SUCH AS WRISTLETS | | | |
| | OR SOCKS | 7 | 31 | -24 |
| K424 | PATCH OR DARN ORGANIZATIONAL CLOTHING | 21 | 45 | -24 |
| F191 | INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 65 | 88 | -23 |

ANALYSIS OF TASK DIFFICULTY

The relative difficulty of each task in the task inventory was assessed through independent ratings by 46 experienced 7-skill level Fabrication and Parachute career NCOs. These ratings were processed to produce an ordered listing of all tasks in terms of their relative difficulty and were standardized to have an average difficulty of 5.0 and standard deviation of 1.0. (For a more complete description of these ratings, see the <u>Task Factor Administration</u> section in the INTRODUCTION.)

Table 21 lists those tasks rated the most difficult by 427X3 personnel. These tasks primarily involve supervision, although three tasks were related to testing and developing parachutes. It is interesting to note that only one of the 15 most difficult tasks were performed by more than 30 percent of the sample.

One-fifth of the tasks rated average in difficulty were related to maintaining and repairing aircraft fabric surfaces (see Table 22); however, very few incumbents performed these tasks. Of the 15 tasks rated average in difficulty, none were performed by more than 25 percent of the sample.

Table 23 reveals those tasks rated the least difficult by 427X3 personnel. One-third of these tasks were performed by 40 percent or more of the incumbents. Typical tasks include: apply talcum powder to liferafts, cut stencils, clean parachute packing or work tables, and remove or install drying tower light bulbs. These tasks, performed typically by junior incumbents, probably relate to the low job satisfaction indices of first enlistment personnel reflected in Table 17 in a previous section of this report.

Job Difficulty Index (JDI)

The Job Difficulty Index for each Cluster and Independent Job Type identified in the CAREER LADDER STRUCTURE section is listed in Table 24. (For a more detailed discussion of JDI, see the <u>Task Factor Administration</u> section in the INTRODUCTION.)

Parachute Repair NCOICs had a JDI of 18.5, the highest job difficulty of all the clusters or independent job types. These incumbents perform the highest average number of tasks (298), and have the second highest average number of months in the career field (121). In addition, they hold the second highest average grade (5.3) of all incumbents in the survey sample (see Table 6 in a previous section of this report).

Fabrication and Parachute Shop Foremen had a JDI of 15.9, the second highest group identified in the CAREER LADDER STRUCTURE section. Many of the supervisory tasks these incumbents perform were rated high in task difficulty. These incumbents also perform a relatively high number of tasks. Interestingly the ATDPUTS (average task difficulty per unit time spent) for the shop foremen was higher (5.7) than for the Parachute Repair NCOICs (5.0), revealing that Fabrication and Parachute Shop Foremen also have an overall quite difficult job.

On the other hand, the Life Preserver personnel job group have the least difficult job. The group performs a very low average number of tasks (38), is the least experienced in the career ladder (23 months), and has an average grade of 3.2. These data presents a picture of relatively junior personnel performing relatively simple and repetitive tasks. Not surprising is that this group has extremely low job interest, low job satisfaction, and an extremely adverse desire to reenlist. Fortunately this is the smallest group in the sample, consisting of only 15 respondents.

TABLE 21

TASKS RATED THE MOST DIFFICULT BY 427X3 PERSONNEL

| TASKS | | TASK DIFFICULTY | PERCENT MEMBERS PERFORMING (N=873) |
|-------|--|--------------------|---|
| C111 | PREPARE RECOMMENDATIONS FOR AWARDS OR DECORATIONS | 8.61 | 20 |
| F219 | REMOVE OR INSTALL CANOPY PANELS | 8.13 | 17 |
| A10 | DRAFT BUDGET ESTIMATES | 7.96 | 10 |
| D116 | ACT AS TRAINING ADVISOR AT STAFF LEVEL | 7.75 | 5 |
| C109 | PREPARE APRS | 7.71 | 38 |
| C110 | PREPARE INDIVIDUAL RECOMMEDATIONS FOR PROMOTION, UPGRADING, | | |
| | DEMOTION, OR DOWNGRADING | 7.67 | 27 |
| C115 | DEMOTION, OR DOWNGRADING WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS DEVELOP NEW PARACHUTE PACKING PROCEDURES | 7.61 | 7 |
| G278 | DEVELOP NEW PARACHUTE PACKING PROCEDURES | 7.54 | 7 |
| C87 | EVALUATE PROCEDURES FOR STORAGE, HANDLING, OR INSPECTION | | |
| | OF EXPLOSIVE DEVICES | 7.46 | 15 |
| D123 | DEVELOP OR UPDATE COURSE CURRICULA MATERIALS, OR SPECIALTY | | |
| | TRAINING STADARDS (STS) | 7.46 | 12 |
| G277 | DEVELOP MODIFICATIONS TO PARACHUTE PACKING PROCEDURES | 7.43 | 8 |
| G286 | | 7.38 | 1 |
| C83 | EVALUATE BUDGET REQUIREMENTS | 7.37 | 8 |
| B75 | WRITE JUSTIFICATIONS FOR EQUIPMENT OR PERSONNEL | 7.34 | 18 |
| D138 | | 7.23 | 8 |

TABLE 22
TASKS RATED AVERAGE IN DIFFICULTY BY 427X3 PERSONNEL

| TASKS | | TASK DIFFICULTY | PERCENT MEMBERS PERFORMING (N=873) |
|-------|---|--------------------|---|
| F248 | REMOVE OR INSTALL PERSONNEL LOWERING DEVICES ON BACK | | |
| | STYLE PARACHUTES | 5.04 | 25 |
| K412 | INSPECT ANTIEXPOSURE SUITS OTHER THAN CWU-16/P TYPE | 5.03 | 20 |
| A6 | DETERMINE SECURITY CLASSIFICATION OF MATERIAL | 5.02 | 8 |
| R581 | DOPE PROOF INTERNAL STRUCTURES OF CONTROL SURFACES | 5.02 | 1 |
| H324 | PERFORM OPERATIONAL CHECKS OF INLET CHECK VALVES | 5.02 | 25 |
| P537 | PERFORM STATIC WEIGHT TESTS ON SLINGS | 5.02 | 2 |
| E150 | MAINTAIN HISTORICAL RECORDS | 5.01 | 14 |
| F249 | REMOVE OR INSTALL PERSONNEL LOWERING DEVICES ON TORSO | | |
| | HARNESSES | 5.01 | 11 |
| Q553 | INSTALL SUNSHADE MATERIAL ON ROLLERS | 4.99 | 4 |
| R597 | PATCH OR SEW DAMAGED WING BALANCE SEALS | 4.99 | 3 |
| C107 | PERFORM FIRE INSPECTIONS | 4.99 | 24 |
| K411 | INSPECT ANTI-G SUITS | 4.99 | 18 |
| R614 | STITCH TEARS ON CONTROL SURFACES | 4.99 | 1 |
| N492 | INSPECT SOUNDPROOFING UNDER CATWALKS FOR DETERIORATION, | | |
| | HYDRAULIC FLUID, OR OIL SATURATION | 4.98 | 7 |
| 1356 | PACK LIFE PRESERVERS | 4.97 | 55 |

TABLE 23

TASKS RATED THE LEAST DIFFICULT BY 427X3 PERSONNEL

| TASKS | | TASK DIFFICULTY | PERCENT MEMBERS PERFORMING (N=873) |
|--------------|---|--------------------|---|
| V 720 | PERFORM BASE CLEANUP OPERATIONS | 2.24 | 27 |
| L466 | STENCIL NAMES ON B-4 BAGS | 2.42 | 10 |
| H294 | APPLY TALCUM POWDER TO LIFERAFTS | 2.49 | 51 |
| F260 | REMOVE OR INSTALL SURVIVAL USES OF THE PARACHUTE PAMPHLETS | | |
| | (AFP 64-15) | 2.53 | 40 |
| V6 92 | CUT STENCILS | 2.64 | 63 |
| U6 53 | CLEAN PARACHUTE PACKING OR WORK TABLES | 2.82 | 59 |
| H301 | DELIVER RADIO AND LOCATOR BEACONS TO RADIO SHOP | 2.87 | 7 |
| F272 | WAX THREADS OR CORDS | 2.91 | 60 |
| U68 0 | REMOVE OR INSTALL DRYING TOWER LIGHT BULBS | 2.92 | 14 |
| V691 | AUGMENT SECURITY POLICE | 2.93 | 3 |
| F243 | REMOVE OR INSTALL MINIMUM SURVIVAL KITS (SRU-16/P) | 2.99 | 27 |
| H300 | DELIVER FIRST AID KITS TO MEDICAL MATERIEL FOR TIME CHANGES | 3.00 | 5 |
| U689 | TRANSPORT TEST EQUIPMENT TO AND FROM PMEL | 3.13 | 24 |
| K4 50 | STENCIL INFORMATION ON ANTIEXPOSURE SUITS | 3.19 | 16 |
| 1373 | STENCIL INFORMATION ON LPU 5P OUTER CONTAINERS | 3.25 | 14 |

TABLE 24

JOB DIFFICULTY INDICES FOR CLUSTERS AND INDEPENDENT JOB TYPES

| CLUSTERS AND INDEPENDENT JOB TYPES | JOB DIFFICULTY INDEX |
|---|----------------------------|
| PARACHUTE REPAIR NCOICs | 18.5 |
| FABRICATION AND PARACHUTE SHOP FOREMEN | 15.9 |
| PARACHUTE AND LIFERAFT NCOICS | 15.4 |
| PARACHUTE AND LIFERAFT PERSONNEL | 15.1 |
| DECELERATION AND DROGUE PARACHUTE PERSONNEL | 12.0 |
| SURVIVAL EQUIPMENT PERSONNEL | 11.3 |
| FABRIC REPAIR PERSONNEL | 10.0 |
| PARACHUTE PERSONNEL | 9.9 |
| PARACHUTE AND FLOTATION EQUIPMENT PERSONNEL | 9.0 |
| CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS | 6.0 |
| LIFE PRESERVER PERSONNEL | 4.3 |

ANALYSIS OF TRAINING EMPHASIS

The relative training emphasis of each task in the inventory were assessed through the ratings of 65 experienced 7-skill level Frabrication and Parachute NCOs. These ratings were processed to produce an ordered listing of all tasks in terms of their recommended emphasis in training of first enlistment personnel. These ratings had an average of 2.6 and a standard deviation of 1.5. (For a more complete description of these ratings, see the section on <u>Task Factor Administration</u> in the INTRODUCTION.) Training emphasis becomes important when evaluating specialty training documents, such as Specialty Training Standard (STS) and Specialty Plan of Instruction (POI). Tasks rated highest in training emphasis by 427X3 personnel appear As expected, many of the tasks are commonly performed by in Table 25. personnel in the Parachute and Liferaft Personnel; Parachute Personnel; Cargo/Aerial Delivery Parachute Repair Assistants; and Survival Equipment Personnel groups in which a majority of first enlistment personnel appear. All of these tasks involve some aspect of servicing and repairing parachutes; inspecting, maintaining, and repairing liferafts; and inspecting, maintaining, and repairing life preservers. It is interesting to note that all of these tasks rated high in training emphasis were performed by more than 50 percent of the 427X3 personnel with less than 48 months TAFMS.

Tasks rated average in training emphasis are listed in Table 26 and cover a fairly broad range of tasks which are more representative of the whole career ladder. These tasks seem to involve modifying and repairing individual equipment; inspecting, maintaining, and repairing protective clothing; and supervision. These tasks are generally performed by less than 30 percent of those personnel with less than 48 months TAFMS, and include modifying organizational clothing, sewing pockets into survival vests, and removing or replacing hardware on survival vests.

Finally, Table 27 reveals those tasks rated the lowest in training emphasis by 427X3 personnel. These tasks were either supervisory or related to performing general maintenance functions. Less than five percent of 427X3 personnel with less than 48 months TAFMS reported performing these tasks. Examples of these tasks rated lowest in training emphasis would include recover wind tetrahedrons, assemble fuel cells, prepare budget or accounting reports, and select parachutes for test projects.

These data reflect that there are a number of tasks which senior technicians in the field would recommend be emphasized in initial training. These involve a variety of servicing and repairing parachute tasks as well as inspecting, maintaining, and repairing life preserver tasks. A more complete listing of tasks and associated training emphasis and difficulty ratings will be forwarded to training managers for review and decisions on which tasks are more appropriate for resident training and OJT systems.

TABLE 25

TASKS RATED THE HIGHEST IN TRAINING EMPHASIS BY 427X3 PERSONNEL

| TASKS | | TRAINING EMPHASIS | PERCENT MEMBERS PERFORMING (N=357) |
|-------|--|----------------------|---|
| F191 | INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY | | |
| | SUBSYSTEMS | 6.35 | 64 |
| F194 | | 6.15 | 74 |
| F200 | | | |
| | SUBSYSTEMS | 6.05 | 64 |
| 1356 | PACK LIFE PRESERVERS | 6.01 | 64 |
| H292 | APPLY OUTSIDE PATCHES TO LIFERAFTS | 5.94 | 57 |
| H314 | LOCATE LEAKS ON LIFERAFTS | 5.85 | 60 |
| F193 | | | |
| | (AFTO FORM 393) | 5.80 | 5 8 |
| F188 | INSPECT AIRCRAFT DECELERATION PARACHUTES | 5.79 | 53 |
| F208 | | 5.75 | 56 |
| 1358 | | 5.57 | 53 |
| F238 | | 5.69 | 64 |
| 1348 | | 5.68 | 61 |
| 1359 | | 5.68 | 65 |
| 1360 | | 5.63 | 62 |
| F195 | MAINTAIN PARACHUTE REPACK, INSPECTION, AND COMPONENT | | |
| | RECORD FORMS (AFTO FORM 392) | 5.57 | 57 |

TABLE 26

TASKS RATED AVERAGE IN TRAINING EMPHASIS BY 427X3 PERSONNEL

| TASKS | | TRAINING EMPHASIS | PERCENT MEMBERS PERFORMING (N=357) |
|-------|---|----------------------|------------------------------------|
| B63 | IMPLEMENT SAFETY PROCEDURES OR PROGRAMS | 2.46 | 4 |
| J380 | APPLY OUTSIDE PATCHES TO ESCAPE SLIDES | 2.46 | 8 |
| L459 | REMOVE OR REPLACE HARDWARE ON SURVIVAL VESTS | 2.46 | 26 |
| B49 | DIRECT FABRICATION AND PARACHUTE SHOP FUNCTIONS | 2.45 | 5 |
| C107 | PERFORM FIRE INSPECTIONS | 2.45 | 6 |
| J385 | INFLATE ESCAPE SLIDES | 2.45 | 9 |
| U646 | CHANGE GRINDER STONES | 2.45 | 4 |
| J391 | PERFORM FUNCTIONAL CHECKS OF ESCAPE SLIDES | 2.43 | 8 |
| L464 | SEW POCKETS ONTO SURVIVAL VESTS | 2.40 | 28 |
| C92 | EVALUATE THE MAINTENANCE OR USE OF SUPPLIES | 2.38 | 3 |
| P545 | SEW LOOSE SEAMS ON SLINGS | 2.38 | 5 |
| B61 | IMPLEMENT FOREIGN OBJECT DAMAGE (FOD) PREVENTION PROGRAMS | 2.37 | 4 |
| F212 | REMOVE OR INSTALL AERIAL RECOVERY LOAD LINES | 2.37 | 1 |
| J383 | DEFLATE ESCAPE SLIDES | 2.37 | 9 |
| K420 | MODIFY ORGANIZATIONAL CLOTHING | 2.37 | 30 |

TABLE 27
TASKS RATED THE LOWEST IN TRAINING EMPHASIS BY 427X3 PERSONNEL

| TASKS | | TRAINING EMPHASIS | PERCENT MEMBERS PERFORMING (N=357) |
|-------|--|----------------------|---|
| V725 | REMOVE OR REPLACE FUEL CELLS | .08 | 1 |
| C94 | EVALUATE WORK REQUIREMENTS FOR TEST PROJECTS | . 12 | 1 |
| A27 | PLAN POSTDROP DAMAGE CHARTING | 14 | 3 |
| V693 | DEICE AIRCRAFT | . 15 | 1 |
| E160 | PREPARE BUDGET OR ACCOUNTING REPORTS | . 15 | 1 |
| D132 | SCHEDULE INSTRUCTOR TRAINING | . 19 | 1 |
| V690 | ASSEMBLE FUEL CELLS | . 20 | 1 |
| A37 | SCHEDULE TEMPORARY DUTY (TDY) | . 20 | 3 |
| V694 | INSPECT FUEL CELLS | . 21 | I |
| D136 | SELECT OR ASSIGN INSTRUCTORS OF TRAINERS | . 21 | 1 |
| B41 | DIRECT ADMINISTRATIVE FUNCTIONS | . 21 | 3 |
| A10 | DRAFT BUDGET ESTIMATES | . 21 | 3 |
| V724 | RECOVER WIND TETRAHEDRONS | . 23 | 1 |
| C115 | WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS | . 23 | 1 |
| B69 | SELECT PARACHUTES FOR TEST PROJECTS | . 23 | 3 |

COMPARISON TO PREVIOUS SURVEYS

A previous Occupational Survey Report, AFPT 90-582-173, was completed for the Fabric and Rubber Products career ladder (AFS 582X0) in December 1974. No previous occupational survey was conducted for the Parachute Rigger career ladder (AFS 582X1). A comparison to the present Fabrication and Parachute career ladder is therefore somewhat difficult; however, there are several recognizable similar groups in the previous Fabric and Rubber Products career ladder survey. These groups include: Branch/ Shop NCOICs who compare very closely to the present Fabrication and Parachute Shop Foremen; Rubber Products Specialists who compare favorable to the present Life Preserver Personnel in terms of duties and tasks performed; and Fabric/Leather Specialists who are similar to the present Fabric Repair Personnel.

The December 1974 Occupational Survey Report for total sample Fabric and Rubber Products career ladder incumbents show that 59 percent found their jobs interesting versus 47 percent for current total sample Fabrication and Parachute career ladder incumbents. Perceived utilization of talents and training portray present incumbents as having slightly lower perceptions than in the earlier study (72 percent versus 74 percent). However, the present incumbents indicate reenlistment intentions of 61 percent versus 58 percent for the earlier incumbents. Overall, a comparison of current job data to the December 1974 survey of Fabric and Rubber Products career ladder indicates some similarities but basically the overall job structures are quite different.

DISCUSSION

This career ladder consists primarily of technically oriented personnel. Sixty-nine percent of the survey respondents were 3- or 5-skill level personnel. Forty-one percent of the career ladder incumbents were in their first enlistment. All of these personnel spend a high percent of their job time in three technical areas (See Analysis of DAFSC Groups section). This is indicative of a career ladder which is highly homogeneous.

When the merger of AFS 582X0, Fabric and Rubber Products, and AFS 582X1, Parachute Rigger, took place in April 1977, there was some concern that individuals from each of the former career ladder would tend to specialize in areas where they had previously worked. Forty-one percent of the former Parachute Riggers and 33 percent of the former Fabric and Rubber Products personnel appear in the current survey. There is some indication that specialization along former work lines has occurred in several of the groups, such as Parachute Repair NCOICs, Parachute Personnel, Life Preserver Personnel, Fabric Repair Personnel, and Parachute Repair Assistants. However, these individuals represent only 30 percent of the survey sample. The remaining 70 percent appear to have integrated very well into the new Fabrication and Parachute career ladder.

There was also some concern that perhaps Production Oriented Maintenance Organization (POMO) personnel may have somewhat different jobs than others. This did not materialize. Forty-five percent of the survey sample respondents were POMO personnel and they appear in many of the clusters and independent job groups in varying percentages.

Several personnel were assigned to the 6513 Test Squadron and the 6515 Test Support Squadron at Edwards AFB, and appear in the Parachute Personnel cluster and a small independent job type, Life Preserver Personnel. Although they are involved in testing functions, their jobs did not differ to a significant enough degree to cause them to group separately. The 4449th Mobility Support Squadron at Holloman AFB had some personnel who work on prefabricated buildings, but again there was not enough significant difference to cause these personnel to group separately.

The above facts appear to support the decision in 1977 to merge the Fabric and Rubber Products and Parachute Rigger career ladders into one career ladder, Fabric and Parachute. The lack of significant write-ins from field personnel expressing opposition to the merger further substantiates the 1977 decision to merge the two ladders.

An examination of first enlistment personnel, who represent 41 percent of the career field, indicates a rather disturbing picture of career ladder morale. Only 37 percent of the first-term respondents find their job interesting and just 51 percent feel that their talents are being utilized fairly well or better. A 1979 comparative sample of mission equipment maintenance career ladders, representing 6,124 personnel, indicated that 56 percent of these personnel found their jobs to be interesting and 65 percent felt that their talents were well utilized. An encouraging note was that 427X3 first-term personnel had a higher perception of the use of their training and higher reenlistment intentions than did personnel in the 1979 comparative

sample (see Table 17). This apparent incongruity may indicate that first enlistment personnel perform many repetitive and boring tasks, but recognize that as they progress in the career field, they will be performing more meaningful and interesting jobs. This does represent a potential problem for career field managers since job satisfaction tends to be generally low across most of the career ladder groups.

Finally, the overall picture of this career ladder developed in this study is one of fairly homogeneous, technically-oriented specialty where most personnel are not too interested in their work, but feel that their training was quite satisfactory. Their relatively high reenlistment intentions appear to indicate that they are fairly optimistic as to their future.

APPENDIX A

REPRESENTATIVE TASKS PERFORMED BY PARACHUTE AND LIFERAFT PERSONNEL (N=228)

| TASK | PERCENT MEMBERS PERFORMING |
|--|----------------------------|
| INFLATE LIFE PRESERVERS | 100 |
| INFLATE LIFERAFTS | 100 |
| PERFORM LEAK INSPECTIONS ON LIFERAFTS | 100 |
| PACK LIFE PRESERVERS | 99 |
| MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 99 |
| DEFLATE LIFE PRESERVERS | 98 |
| PERFORM LEAK INSPECTIONS ON LIFE PRESERVERS | 98 |
| PERFORM FUNCTIONAL CHECKS OF LIFERAFTS | 98 |
| REMOVE OR INSTALL CARBON DIOXIDE (CO ₂) CARTRIDGES | 97 |
| BREAK DOWN LIFE PRESERVERS FOR INSPECTION | 97 |
| WEIGH CO ₂ CYLINDERS | 97 |
| DEFLATE LIFERAFTS | 96 |
| CISUALLY INSPECT LIFE PRESERVERS | 96 |
| VISUALLY INSPECT LIFERAFTS | 96 |
| PERFORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 95 |
| WEIGH CO ₂ CARTRIDGES | 95 |
| REMOVE OR INSTALL LIFE PRESERVER CELLS | 95 |
| STENCIL INFORMATION ON LIFE PRESERVERS | 95 |
| CLEAN FACILITIES | 94 |
| APPLY TALCUM POWDER TO LIFERAFTS | 93 |
| REMOVE OR REPLACE LIFERAFT CO ₂ CYLINDERS | 91 |
| STENCIL INFORMATION ON LIFERAFTS | 86 |
| VISUALLY INSPECT CO ₂ CARTRIDGES | 85 |
| PACK PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 80 |
| DACK AIDCDAFT DECEIFDATION DADACWITEC | 72 |

REPRESENTATIVE TASKS PERFORMED BY SURVIVAL EQUIPMENT PERSONNEL (N=53)

| TASKS | PERCENT HERBERS PERFORMING |
|--|----------------------------|
| | |
| INSPECTING, MAINTAINING, AND REPAIRING LIFE PRESERVERS | 100 |
| DEFLATE LIFE PRESERVERS | 100 |
| INFLATE LIFE PRESERVERS | 100 |
| INFLATE LIFERAFTS | 100 |
| PERFORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 100 |
| DEFLATE LIFERAFTS | 100 |
| VISUALLY INSPECT LIFERAFTS | 100 |
| REMOVE OR INSTALL CARBON DIOXIDE (CO ₂) CARTRIDGES | 98 |
| VISUALLY INSPECT LIFE PRESERVERS | 98 |
| APPLY TALCUM POWDER TO LIFERAFTS | 98 |
| WEIGH CO2 CYLINDERS | 96 |
| BREAK DOWN LIFE PRESERVERS FOR INSPECTION | 94 |
| PERFORM LEAK INSPECTIONS ON LIFE PRESERVERS | 94 |
| VISUALLY INSPECT CO ₂ CARTRIDGES | 94 |
| STENCIL INFORMATION ON LIFERAFTS | 94 |
| DETERMINE REPAIR REQUIREMENTS FOR DAMAGED LIFE PRESERVERS | 94 |
| PERFORM LEAK INSPECTIONS ON LIFERAFTS | 90 |
| LOCATE LEAKS ON LIFERAFTS | 90 |
| ANNOTATE LIFE PRESERVER INSPECTION RECORD CARD FORMS (AFTO FORM 336) | 89 |
| REMOVE OR REPLACE LIFERAFT CO, CYLINDERS | 89 |
| INSPECT LIFERAFT CARRYING CASES | 89 |
| WEIGH CO, CARTRIDGES | 89 |
| PERFORM FUNCTIONAL CHECKS OF LIFERAFTS | 87 |
| INSPECT LIFERAFT ACCESSORY SURVIVAL KITS | 85 |
| THURNTORY ACCESSORY SHOUTUAL MITS | 83 |

REPRESENTATIVE TASKS PERFORMED BY PARACHUTE AND LIFERAFT NCOICs (N=20)

| TASKS | PERCENT MEMBERS PERFORMING |
|---|----------------------------|
| MAINTAIN AUTOMATIC RIPCORD RELEASE LOG FORMS (AFTO FORM 393) | 100 |
| INSPECT LIFERAFT CO, CYLINDERS FOR PROPER MARKINGS | 100 |
| INFLATE LIFERAFTS | 95 |
| WEIGH CO CYLINDERS | 95 |
| ANNOTATE REPARABLE ITEM PROCESSING TAG FORMS (AFTO Form 350) | 95 |
| PERFORM FUNCTIONAL CHECKS OF LIFERAFTS | 95 |
| PACK PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 95 |
| INFLATE LIFE PRESERVERS | 95 |
| WEIGH CO, CARTRIDGES | 95 |
| STENCIL INFORMATION ON LIFERAFTS | 95 |
| DIRECT LIFERAFT SECTION FUNCTIONS | 90 |
| DEFLATE LIFERAFTS | 90 |
| DEFLATE LIFE PRESERVERS | 90 |
| VISUALLY INSPECT LIFERAFTS | 90 |
| PELLORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 90 |
| REMOVE OR REPLACE LIFERAFT CO, CYLINDERS | 90 |
| INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 85 |
| DEMONSTRATE HOW TO LOCATE OR INTERPRET TECHNICAL INFORMATION | 85 |
| PACK LIFE PRESERVERS | 85 |
| REMOVE OR INSTALL CARBON DIOXIDE (CO ₂) CARTRIDGES | 80 |
| PACK AIRCRAFT DECELERATION PARACHUTES | 80 |
| DIRECT FLOATATION EQUIPMENT SECTION FUNCTIONS | 80 |
| DIRECT LIFE PRESERVER SECTION FUNCTIONS | 80 |
| DIRECT PERSONNEL PARACHUTE SECTION FUNCTIONS | 75 |
| MAINTAIN MAINTENANCE DATA COLLECTION PECODO FORMS (AFTO FORM 3/4) | 70 |

REPRESENTATIVE TASKS PERFORMED BY DECELERATION AND DROGUE PARACHUTE PERSONNEL (N=13)

| TASKS | PERCENT MEMBERS PERFORMING |
|---|----------------------------|
| REMOVE OR INSTALL LOCATOR BEACONS | 100 |
| REMOVE OR INSTALL MINOR HARDWARE, SUCH AS SNAPS, GROMMETS, EYELETS, OR INTERLOCKING FASTENERS | 100 |
| REMOVE OR INSTALL MAIN CANOPIES | 100 |
| REMOVE OR INSTALL CONNECTOR LINKS | 100 |
| CLEAN PARACHUTE PACKING OR WORK TABLES | 100 |
| REMOVE OR INSTALL PILOT CHUTES | 100 |
| REMOVE OR INSTALL RADIO LOCATOR BEACON ANTENNAS | 100 |
| REMOVE OR INSTALL SURVIVAL USES OF THE PARACHUTE PAMPHLETS (AFP 64-15) | 100 |
| WAX THREADS OR CORDS | 100 |
| CUT STENCILS | 92 |
| REMOVE OR INSTALL PACK LOCKING LOOPS | 92 |
| MAINTAIN AUTOMATIC RIPCORD RELEASE LOG FORMS (AFTO FORM 393) | 92 |
| PERFORM FUNCTIONAL TESTS OF CANOPY RELEASES | 92 |
| REMOVE OR INSTALL RISERS | 92 |
| REMOVE OR INSTALL PACKS, DEPLOYMENT BAGS, OR CONTAINERS | 92 |
| STENCIL INFORMATION ON PARACHUTE COMPONENTS | 92 |
| CLEAN AND LUBRICATE SEWING MACHINES | 92 |
| PERFORM TIME COMPLIANCE TECHNICAL ORDER (TCTO) MODIFICATIONS OF PARACHUTES | 92 |
| REMOVE OR INSTALL EJECTOR SNAPS | 92 |
| ADJUST TIMING OF SEWING MACHINES | 92 |
| CLEAN FACILITIES | 85 |
| MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 85 |
| ADJUST TENSION ON RIPCORD RELEASE GRIPS | 85 |
| PERFORM OPERATOR MATITENANCE ON SEWING MACHINES, SUCH AS CHANGING NEEDLES LAMPS, OR PRESSURE FEET | 85 |
| HANC DADACHITES | 85 |

REPRESENTATIVES TASKS PERFORMED BY PARACHUTE AND FLOTATION EQUIPMENT PERSONNEL (N=21)

| TASKS | PERFORMING |
|--|------------|
| AND AND AND AND | 100 |
| INFLATE LIFERAFTS | 100 |
| PERFORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 100 |
| DEFLATE LIFERAFTS | 95 |
| DEFLATE LIFE PRESERVERS | 95 |
| WEIGH CO ₂ CYLINDERS | 95 |
| BREAK DOWN LIFE PRESERVERS FOR INSPECTION | 95 |
| INFLATE LIFE PRESERVERS | 90 |
| PACK LIFE PRESERVERS | 90 |
| VISUALLY INSPECT LIFERAFTS | 90 |
| VISUALLY INSPECT LIFE PRESERVERS | 90 |
| PERFORM LEAK INSPECTIONS ON LIFE PRESERVERS | 90 |
| STENCIL INFORMATION ON LIFERAFTS | 90 |
| THOVE OR INSTALL CARBON DIOXIDE (CO) CARTRIDGES | 86 |
| LOCATE LEAKS ON LIFERAFTS | 86 |
| REMOVE OR INSTALL LIFE PRESERVER CELLS | 86 |
| STENCIL INFORMATION ON LIFE PRESERVERS | 81 |
| VISUALLY INSPECT CO2 CARTRIDGES | 81 |
| CUT STENCILS | 81 |
| APPLY TALCUM POWDER TO LIFERAFTS | 81 |
| INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 81 |
| CLEAN AND LUBRICATE SEWING MACHINES | 81 |
| HANG PARACHUTES | 76 |
| PERFORM FUNCTIONAL CHECKS OF LIFERAFTS | 76 |
| WEIGH CO2 CARTRIDGES | 76 |
| REMOVE OR INSTALL MINOR HARDWARE, SUCH AS SNAPS, GROMMETS, EYELETS, OR | 76 |

REPRESENTATIVE TASKS PERFORMED BY PARACHUTE REPAIR NCOICs (N=114)

| TASKS | PERCENT MEMBERS PERFORMING |
|--|----------------------------|
| CLEAN AND LUBRICATE SEWING MACHINES | 96 |
| STORE THREAD AND CORDAGE | 94 |
| ADJUST TIMING OF SEWING MACHINES | 92 |
| DETERMINE REPAIR REQUIREMENTS FOR DAMAGED PARACHUTES | 89 |
| ANNOTATE REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORM 350) | 89 |
| CLEAN FACILITIES | 88 |
| MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 87 |
| PERFORM OPERATOR MAINTENANCE ON SEWING MACHINES, SUCH AS CHANGING NEEDLES, LAMPS, OR PRESSURE FEET | 87 |
| STORE SURVIVAL EQUIPMENT COMPONENTS | 86 |
| MAINTAIN MAINTENANCE DATA COLLECTION RECORD FORMS (AFTO FORM 349) | 85 |
| SEW ITEMS SUCH AS NAME TAGS, UNIT PATCHES, OR VELCRO TAPE ONTO PROTECTIVE OR ORGANIZATIONAL CLOTHING | 85 |
| PREPARE APRS | 84 |
| CLEAN PARACHUTE PACKING OR WORK TABLES | 84 |
| MANUFACTURE FOREIGN OBJECT DAMAGE (FOD) BAGS | 84 |
| CONDUCT OJT OR QUALIFICATION TRAINING | 83 |
| COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES | 81 |
| SEW REFLECTIVE TAPE ONTO INDIVIDUAL CLOTHING OR ISSUE ITEMS | 81 |
| PERFORM COMPLETED WORK INSPECTIONS | 81 |
| ESTABLISH WORK PRIORITIES | 79 |
| PACK PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 78 |
| INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES | 78 |
| INSPECT PERSONNEL | 78 |
| SUPERVISE FABRICATION AND PARACHUTE SUPERVISORS (AFSC 42773) | 78 |
| INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBYSTEMS | 75 |
| DIDECT PADDICATION AND DADACHITE CHOD FINCTIONS | 73 |

REPRESENTATIVE TASKS PERFORMED BY PARACHUTE PERSONNEL (N=127)

| TASKS | PERCENT MEMBER |
|---|----------------|
| REMOVE OR INSTALL CONNECTOR LINKS | 87 |
| INSPECT PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 86 |
| PACK PERSONNEL PARACHUTES OR PERSONNEL RECOVERY SUBSYSTEMS | 85 |
| REMOVE OR INSTALL PILOT CHUTES | 85 |
| REMOVE OR INSTALL MINOR HARDWARE, SUCH AS SNAPS, GROMMETS, EYELETS, OR INTERLOCKING FASTENERS | 84 |
| MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 83 |
| REMOVE OR INSTALL MAIN CANOPIES | 81 |
| REMOVE OR INSTALL PACKS, DEPLOYMENT BAGS, OR CONTAINERS | 79 |
| REMOVE OR INSTALL RISERS | 79 |
| REMOVE OR INSTALL BRIDLE LINES | 78 |
| REMOVE OR INSTALL MANUAL RIPCORDS | 75 |
| FENCIL INFORMATION ON PARACHUTE COMPONENTS | 75 |
| HAND PARACHUTES | 71 |
| CL. NV PARACHUTE PACKING OR WORK TABLES | 70 |
| INSPECT AIRCRAFT DECELERATION PARACHUTES | 67 |
| DETERMINE REPAIR REQUIREMENTS FOR DAMAGED PARACHUTES | 65 |
| CUT STENCILS | 64 |
| PACK AIRCRAFT DECELERATION PARACHUTES | 64 |
| MAINTAIN PARACHUTE REPACK, INSPECTION, AND COMPONENT RECORD FORMS (AFTO FORM 392) | 61 |
| MAINTAIN AUTOMATIC REPCORD RELEASE LOG FORMS (AFTO FORM 393) | 61 |
| PERFORM FUNCTIONAL TESTS OF CANOPY RELEASES | 57 |
| REMOVE OR INSTALL LOCATOR BEACONS | 56 |
| REMOVE OR INSTALL PACK LOCKING LOOPS | 54 |
| REMOVE OR INSTALL HARNESSES | 51 |

REPRESENTATIVE TASKS PERFORMED BY LIFE PERSERVER PERSONNEL. (N=15)

| | PERCENT MEMBERS PERFORMING |
|---|----------------------------|
| INFLATE LIFE PRESERVERS | 100 |
| | 100 |
| DEFLATE LIFE PRESERVERS | |
| PACK LIFE PRESERVERS | 93 |
| VISUALLY INSPECT LIFE PRESERVERS | 93 |
| PERFORM LEAK INSPECTIONS ON LIFE PRESERVERS | 93 |
| INSPECT LIFE PRESERVER ACCESSORIES | 93 |
| REMOVE OR INSTALL CARBON DIOXIDE (CO ₂) CARTRIDGES | 87 |
| BREAK DOWN LIFE PRESERVERS FOR INSPECTION | 87 |
| PERFORM FUNCTIONAL CHECKS OF LIFE PRESERVERS | 87 |
| REMOVE OR INSTALL LIFE PRESERVER CELLS | 87 |
| WEIGH CO, CARTRIDGES | 80 |
| VISUALLY INSPECT CO, CARTRIDGES | 80 |
| PATCH LIFE PRESERVERS | 80 |
| REMOVE OR REPLACE MISSING, DAMAGED, OR DETERIORATED HARDWARE ON LIFE PERSER | VERS 80 |
| STENCIL INFORMATION ON LIFE PRESERVERS | 73 |
| VISUALLY INSPECT LIFE PRESERVERS | 73 |
| PREPARE LIFE PRESERVER DATA FORMS (AFTO 466) | 67 |
| DETERMINE REPAIR REQUIREMENTS FOR DAMAGED LIFE PRESERVERS | 67 |
| ANNOTATE LIFE PRESERVER INSPECTION RECORD CARD FORMS (AFTO FORM 336) | 67 |
| REMOVE OR INSTALL LIFE PRESERVER CONTAINERS | 67 |
| PERFORM OPERATIONAL CHECKS OF ORAL INFLATION VALVES ON LIFE PRESERVERS | 60 |
| REMOVE OR INSTALL LIFE PRESERVER INFLATORS | 60 |
| RESTITCH LIFE PRESERVER CONTAINERS | 53 |
| REMOVE OR REPLACE LANYARDS ON LIFE PRESERVERS | 53 |
| MODIFY LIFE PRESERVER CONTAINERS | 40 |

REPRESENTATIVE TASKS PERFORMED BY FABRIC REPAIR PERSONNEL (N=43)

| TASKS | PERCENT MEMBERS |
|--|-----------------|
| CLEAN AND LUBRICATE SEWING MACHINES | 81 |
| CUT FABRIC FOR AIRCRAFT FABRIC ITEMS | 74 |
| FABRICATE PROTECTIVE COVERS | 72 |
| INSPECT AIRCRAFT FABRIC ITEMS | 70 |
| SEW LOOSE SEAMS, RIPS, SNAGS, OR TEARS OF AIRCRAFT FABRIC ITEMS | 70 |
| CLEAN FACILITIES | 67 |
| PERFORM OPERATOR MAINTENANCE ON SEWING MACHINES, SUCH AS CHANGING NEEDLES, LAMPS, OR PRESSURE FEET | 67 |
| DETERMINE REPAIR REQUIREMENTS FOR AIRCRAFT FABRIC ITEMS | 67 |
| SEW LOOSE SEAMS OF PROTECTIVE COVERS | 67 |
| ADJUST TIMING OF SEWING MACHINES | 67 |
| SELECT MATERIALS FOR PROTECTIVE COVERS | 67 |
| HARAGE DAMAGED SECTIONS OF PROTECTIVE COVERS | 67 |
| FABRIC OR INSULATING MATERIAL FOR AIRCRAFT SOUNDPROOFING | 65 |
| THE PROTECTIVE COVER PATTERNS | 65 |
| TERMINE REPAIR REQUIREMENTS FOR AIRCRAFT SOUNDPROOFING OR THOLSTERY | 63 |
| DETERMINE REPAIR REQUIREMENTS FOR PROTECTIVE COVERS | 60 |
| MANUFACTURE AIRCRAFT SEAT COVERS, HEADREST COVERS, OR ARMREST COVERS | 60 |
| CUT FOAM RUBBER FOR SEAT CUSHIONS OR MATTRESSES | 60 |
| REMOVE OR REPLACE HARDWARE ON AIRCRAFT FABRIC ITEMS | 58 |
| LAY OUT PATTERNS FOR PROTECTIVE COVERS | 58 |
| INSPECT AIRCRAFT SOUNDPROOFING | 56 |
| SEW AIRCRAFT INSULATION | 56 |
| PATCH AIRCRAFT ENGINE SEALS | 56 |
| REMOVE OR REPLACE HARDWARE OF PROTECTIVE COVERS | 56 |
| CLEAN AND LUBRICATE FARRIC CUTTERS | 56 |

REPRESENTATIVE TASKS PERFORMED BY FABRICATION AND PARACHUTE SHOP FOREMEN (N=102)

| TASKS | PERCENT MEMBERS PERFORMING |
|---|----------------------------|
| COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES | 95 |
| COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED PROBLEMS | 94 |
| | |
| INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES | 93 |
| PREPARE APRS | 93 |
| ORIENT NEWLY ASSIGNED PERSONNEL | 92 |
| ASSIGN PERSONNEL TO DUTY POSITIONS | 90 |
| INSPECT PERSONNEL | 88 |
| ESTABLISH WORK PRIORITIES | 87 |
| CERTIFY PROFICIENCY OF SUBORDINATES | 85 |
| DEVELOP WORK METHODS OR PROCEDURES | 84 |
| ESTABLISH EQUIPMENT OR SUPPLY REQUIREMENTS | 82 |
| PERFORM COMPLETED WORK INSPECTIONS | 81 |
| REVIEW TRAINING PROGRESS OF INDIVIDUALS | 80 |
| EVALUATE WORK SCHEDULES | 79 |
| ORDER PARTS OR SUPPLIES | 79 |
| EVALUATE WORK STANDARDS | 78 |
| SUPERVISE FABRICATION AND PARACHUTE SPECIALISTS (AFSC 42753) | 77 |
| EVALUATE THE MAINTENANCE OR USE OF SUPPLIES | 77 |
| CONDUCT BRIEFINGS | 77 |
| INITIATE OR MAINTAIN ON-THE JOB TRAINING RECORD FORMS (AF FORM 623) | 77 |
| IMPLEMENT SAFETY PROCEDURES OR PROGRAMS | 76 |
| PARTICIPATE IN STAFF MEETINGS | 75 |
| ESTABLISH PERFORMANCE STANDARDS | 74 |
| RESEARCH INFORMATION IN PUBLICATIONS | 73 |
| DIDECT FARRICATION AND DARACHITE CHOR FINICTIONS | 70 |

REPRESENTATIVE TASKS PERFORMED BY CARGO/AERIAL DELIVERY PARACHUTE REPAIR ASSISTANTS (N=37)

| TASKS | PERCENT MEMBERS |
|--|-----------------|
| REMOVE OR INSTALL CONNECTOR LINKS | 84 |
| HANG PARACHUTES | 81 |
| MAINTAIN PARACHUTE LOG FORMS (AFTO FORM 391) | 78 |
| CLEAN PARACHUTE PACKING OR WORK TABLES | 78 |
| PATCH OR DARN HOLES IN DEPLOYMENT BAGS | 78 |
| CLEAN FACILITIES | 76 |
| REMOVE OR INSTALL PACKS, DEPLOYMENT BAGS, OR CONTAINERS | 76 |
| REMOVE OR INSTALL RISERS | 67 |
| PACK CARGO OR AERIAL DELIVERY PARACHUTES | 65 |
| CLEAN AND LUBRICATE SEWING MACHINES | 65 |
| INSPECT CARGO OR AERIAL DELIVERY PARACHUTES | 62 |
| EATCH OR DARN HOLES IN MAIN CANOPIES | 62 |
| REMOVE OR INSTALL REEFING LINES | 57 . |
| PERFORM OPERATOR MAINTENANCE ON SEWING MACHINES, SUCH AS CHANGING NEEDLES, MAMPS, OR PRESSURE FEET | 57 |
| PREPAGE UNSERVICEABLE (CONDEMNED) TAG MATERIEL FORMS (DD FORM 1577) | 57 |
| RESEQUENCE SUSPENSION LINES | 51 |
| REMOVE OR INSTALL BRIDLE LINES | 51 |
| REMOVE OR INSTALL BUFFER STRIPS | 49 |
| OPERATE GOVERNMENT VEHICLES | 49 |
| SEW ITEMS SUCH AS NAME TAGS, UNIT PATCHES, OR VELCRO TAPE ONTO PROTECTIVE OR ORGANIZATIONAL CLOTHING | 49 |
| SEW REFLECTIVE TAPE ONTO INDIVIDUAL CLOTHING OR ISSUE ITEMS | 49 |
| DETERMINE REPAIR REQUIREMENTS FOR DAMAGED PARACHUTES | 46 |
| SHARPEN HAND TOOLS | 40 |
| INSPECT AIRCRAFT DECELERATION PARACHUTES | 35 |
| PACK AIRCRAFT DECELERATION PARACHUTES | 30 |

